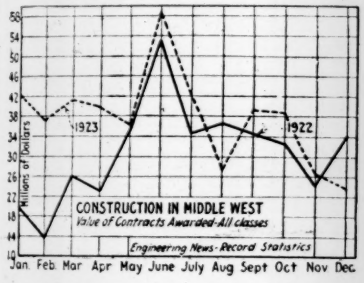
CONSTRUCTION NEWS

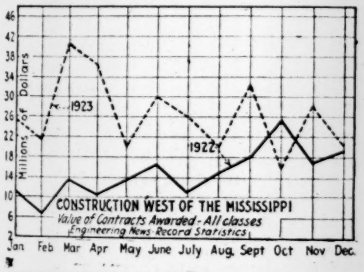
Engineering News-Record, January 17, 1924

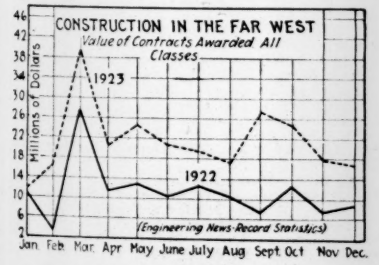
The Construction Barometer

Year 1923 Established New Construction Record—Increasing Number of Jobs Out for Bids

THE year 1923 established several new records in American industry. Production of pig iron and cement exceeded all previous records. Car loadings also reached peak levels and retail stores report unprecedented receipts. The total money value of construction was the highest of any single year in the history of the industry. Contracts for excavating work gained 160 per cent over 1922; water-works increased 75 per cent; bridges, 56 per cent; sewers, 52 per cent; industrial building, 42 per cent; Federal Government work, 9 per cent; streets and roads, 8 per cent and large commercial buildings 8 per cent. New England and the Middle Atlantic states both dropped below the 1922 totals. The Middle West, while it gained during 1923, closed the year at least ten million dollars under December, 1922. Production in basic industries, such as steel and cement, is now experiencing a seasonal slow-down. The lumber output, however, started to increase during the first week in January. With the present gain in building permits and "bids wanted," a repetition of the 1923 volume seems probable.


CONSTRUCTION IN MIDDLE WEST
Value of Contracts Awarded-All classes
Engineering News-Record Statistics
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION WEST OF THE MISSISSIPPI
Value of Contracts Awarded - All classes
Engineering News Record Statistics
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN THE FAR WEST
Value of Contracts Awarded All Classes
1923
1922
Millions of Dollars
(Engineering News-Record Statistics)
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

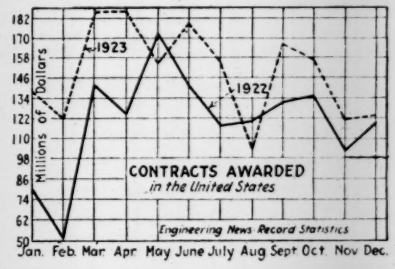
Week Ended	Public Work	Private Work	Total Contracts
Dec. 27	$12,657,000	$11,740,000	$24,397,000
Jan. 3	10,163,000	15,275,000	25,438,000
Jan. 10	13,625,000	23,761,000	37,386,000
3 weeks	$36,445,000	$50,776,000	$87,221,000

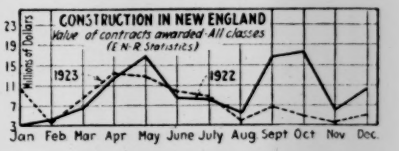
LARGE BUILDING CONTRACTS—NUMBER AND VALUE

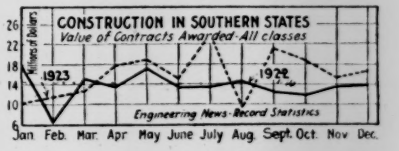
Week Ended	Public No.	Public Work	Private No.	Private Work
Dec. 27	8	$3,859,000	16	$ 7,240,000
Jan. 3	10	3,148,000	30	11,480,000
Jan. 10	12	3,219,000	42	18,138,000
3 weeks..	30	$10,226,000	88	$36,858,000

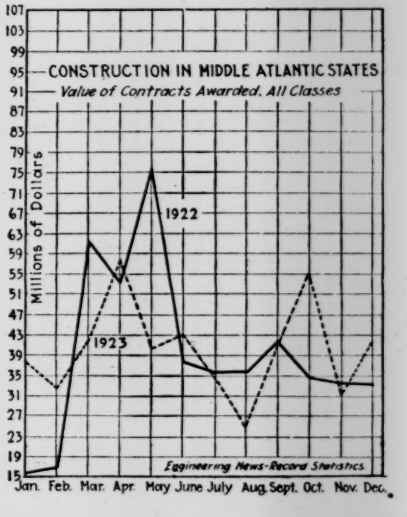
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

Week Ended	Private	All	Public: Streets and Roads	Public: Water-works and Sewers	Public: All Buildings
Dec. 27	29	114	27	17	36
Jan. 3	25	117	31	20	30
Jan. 10	28	149	33	32	30




CONSTRUCTION IN NEW ENGLAND
Value of contracts awarded-All classes
(E.N.R. Statistics)
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN SOUTHERN STATES
Value of Contracts Awarded-All classes
1923
1922
Engineering News-Record Statistics
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN MIDDLE ATLANTIC STATES
Value of Contracts Awarded, All Classes
1922
1923
Millions of Dollars
Engineering News-Record Statistics
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Jan. 18	Boston, Mass.	Jan. 17
Jan. 21	Minneapolis, Minn.	Jan. 17
Jan. 24	Milwaukee, Wis.	Jan. 17
Jan. 24	Louisburg, N. C.	Jan. 10
Jan. 25	Wash., D. C.	Jan. 10
Jan. 25	Two Rivers, Wis.	Jan. 17
Jan. 25	Stillwater, Okla.	Jan. 17
Jan. 26	Fairmont, W. Va.	Jan. 10
Jan. 29	Bloomington, Ind.	Jan. 3
Jan. 30	Greenville, S. C. Adv. Jan. 10 and 17.	Jan. 10
Jan. 31	Massachusetts	Jan. 10
Feb. 1	Phillips, Wis.	Jan. 10
Feb. 4	Denver, Colo. Adv. Jan. 17.	Jan. 17
Feb. 11	Fairmont, Okla. Adv. Jan. 10 and 17.	Jan. 17
Feb. 11	McKeesport, Pa. Adv. Jan. 17.	Jan. 17

SEWERS

Bids Close		See Eng. News-Record
Jan. 22	Minneapolis, Minn.	Jan. 17
Jan. 22	Ferndale, Pa.	Jan. 17
Jan. 24	Ft. Smith, Ark.	Jan. 10
Jan. 24	Baton Rouge, La.	Jan. 3
Jan. 25	Wash., D. C.	Jan. 3
Jan. 25	Mt. Morris, Ill.	Jan. 17
Jan. 25	Wash., D. C.	Jan. 17
Jan. 30	Fostoria, O.	Jan. 3
Feb. 5	Baton Rouge, La.	Jan. 3
Feb. 5	Gallitin, Tenn.	Jan. 17
Feb. 6	Oelwein, Ia. Adv. Jan. 17.	Jan. 17
Feb. 5	St. Louis, Mo.	Jan. 10
Feb. 11	Pleasantville, N. Y. Adv. Jan. 10 and 17.	Jan. 17
Feb. 12	Elizabethtown, Ky.	Jan. 17

BRIDGES

Bids Close		See Eng. News-Record
Jan. 22	St. Louis, Mo.	Dec. 27
Jan. 22	Lakefield, Ont.	Jan. 3
Jan. 22	Louisiana	Jan. 17
Jan. 28	New Jersey Adv. Jan. 10 and 17.	Jan. 10
Feb. 1	Cambridge, O.	Jan. 17
Feb. 4	California	Jan. 17
Feb. 5	Yankton, S. D.	Jan. 17
Feb. 13	Phila., Pa. Adv. Jan. 17.	Jan. 17
Feb. 20	New York Adv. Jan. 17.	Jan. 17
May 1	Tientsen, North China	Oct. 11

DAMS

Bids Close		See Eng. News-Record
Feb. 7	Kingston, N. C.	Dec. 27

Bids Close		See Eng. News-Record
RAILWAYS		
Mar. 18	New Zealand	Sept. 20
EXCAVATION, DRAINAGE IRRIGATION		
Jan. 28	Oroville, Calif.	Jan. 17
Jan. 29	St. Louis, Mo. Adv. Jan. 3 to 17.	Jan. 3
Jan. 31	St. Catherines, Ont.	Jan. 17
Feb. 4	Minneapolis, Minn.	Jan. 10
STREETS AND ROADS		
Jan. 22	New Hampton, Ia.	Jan. 10
Jan. 22	Washington	Jan. 10
Jan. 22	Louisiana	Jan. 10
Jan. 22	St. Louis, Mo.	Jan. 3
Jan. 22	Alexandria, La.	Dec. 27
Jan. 22	Louisiana	Jan. 10
Jan. 23	Mississippi	Jan. 17
Jan. 23	Winona, Miss.	Jan. 10
Jan. 25	Waterloo, N. Y. Adv. Jan. 10 and 17.	Jan. 3 Jan. 10
Jan. 25	San Antonio, Tex.	Jan. 17
Jan. 28	Michigan	Jan. 17
Jan. 28	New Jersey Adv. Jan. 10 and 17.	Jan. 10
Jan. 28	Akron, O.	Jan. 17
Jan. 29	Hibbing, Minn.	Jan. 17
Jan. 29	Uvalde, Tex.	Jan. 17
Jan. 29	Baton Rouge, La. Adv. Dec. 27, Jan. 10 and 17.	Jan. 3
Jan. 29	Virginia	Jan. 10
Jan. 29	Auburn, Neb.	Jan. 17
Jan. 29	Palo Pinto, Tex.	Jan. 17
Jan. 30	Michigan	Jan. 17
Jan. 30	Nevada	Jan. 17
Jan. 31	Laredo, Tex.	Jan. 17
Jan. 31	North Carolina Adv. Jan. 17.	Jan. 17
Jan. 31	Michigan	Jan. 17
Feb. 1	Winchester, Ind.	Jan. 17
Feb. 1	Charleston, W. Va. Adv. Jan. 10 and 17.	Jan. 10
Feb. 4	New Mexico	Jan. 17
Feb. 4	Newport, Ind.	Jan. 17
Feb. 4	Shoals, Ind.	Jan. 17
Feb. 5	Leland, Miss.	Jan. 17
Feb. 5	New York Adv. Jan. 17.	Jan. 17
Feb. 5	Kosciusko, Ind.	Jan. 17
Feb. 8	Nashville, Tenn.	Jan. 17
Feb. 11	Scottsburg, Ind.	Jan. 17
Feb. 14	Jasper, Ind.	Jan. 17
Feb. 28	Kenosha, Wis.	Jan. 17
Mar. 11	Washington	Jan. 10
INDUSTRIAL WORK		
Jan. 15	Milwaukee, Wis.	Jan. 17
Jan. 19	Phila., Pa.	Jan. 17
Jan. 21	Phila., Pa.	Jan. 17
Jan. 21	Toledo, O.	Jan. 17
Jan. 24	Cortland, N. Y.	Jan. 17
Jan. 28	Princeton, Ind.	Jan. 17
Jan. 30	Columbus, O.	Jan. 17
Jan. 31	Ray Brook, N. Y. Adv. Jan. 17.	Jan. 10
Feb. 1	Peoria, Ill.	Dec. 27
May 21	Wellington, New Zealand Adv. Jan. 10.	Jan. 10
BUILDINGS		
Jan. 18	Phila., Pa.	Jan. 17
Jan. 19	Indianapolis, Ind.	Jan. 17
Jan. 19	Troy, N. Y.	Jan. 17
Jan. 20	Lincoln, Neb.	Jan. 17
Jan. 21	Roslyn, N. Y.	Jan. 10
Jan. 21	Clayton, Mo.	Jan. 17
Jan. 21	Phila., Pa.	Jan. 17
Jan. 22	Columbus, O.	Jan. 17
Jan. 22	St. Paul, Minn.	Jan. 17
Jan. 22	Ft. Collins, Colo.	Jan. 17
Jan. 22	Brooklyn, N. Y.	Jan. 17
Jan. 22	Jamaica, N. Y.	Jan. 17
Jan. 22	Creedmoor (Jamaica P. O.), N. Y.	Jan. 10
Jan. 22	Jeannette, La.	Jan. 10
Jan. 25	Indiana, Pa.	Jan. 17
Jan. 25	Williamsport, Pa.	Jan. 17
Jan. 26	Wallingford, Conn.	Jan. 10
Jan. 28	Algonac, Mich.	Jan. 17
Jan. 29	Midland Park, N. J.	Jan. 17
Jan. 29	Bloomington, Ind.	Jan. 10
Jan. 29	Lancaster, Wis.	Jan. 10
Jan. 30	Vernon, Tex.	Jan. 17
Jan. 30	Millville, N. J.	Jan. 10
Jan. 30	Baltimore, Md.	Jan. 10
Jan. 30	Columbus, O.	Jan. 17
Jan. 30	Prairie du Sac, Wis.	Jan. 17
Jan. 31	Mayville, Wis.	Jan. 17
Feb. 1	Oklahoma City, Okla.	Jan. 17
Feb. 1	Lambertville, N. J.	Jan. 10
Feb. 1	Dorchester, Mass.	Jan. 10
Feb. 1	Joliet, Ill.	Nov. 29
Feb. 1	Webster Groves, Mo.	Jan. 17
Feb. 1	Waterbury, Conn.	Jan. 17
Feb. 2	Northfield, Minn.	Jan. 17
Feb. 4	Rome, N. Y.	Jan. 17
Feb. 4	Urbana, Ill.	Jan. 10
Feb. 4	Columbus, O.	Dec. 13
Feb. 4	Wash., D. C.	Dec. 27
Feb. 6	Huntington, W. Va. Adv. Jan. 10 and 17.	Jan. 17
Feb. 8	Phila., Pa.	Jan. 17
Feb. 10	Trenton, N. J.	Jan. 10
Feb. 13	Industry, N. Y. Adv. Jan. 17.	Jan. 17
FEDERAL GOVERNMENT WORK		
Jan. 19	Gates—Cincinnati, O.	Dec. 27
Jan. 21	Post Office—State College, Pa.	
Jan. 21	Steel—Louisville, Ky.	Dec. 27
Jan. 24	Barges—Portland, Ore.	Jan. 17
Jan. 26	Finding Tower—New York, N. Y.	Jan. 10
Jan. 28	Snagboat—Wilmington, N. C.	Jan. 17
Jan. 29	Extension—Kansas City, Mo. Adv. Jan. 10 and 17.	Jan. 3
Jan. 30	Ward—Great Lakes, Ill.	Jan. 3
Jan. 31	Extension — Haverhill, Mass. Adv. Jan. 10 and 17.	Nov. 15 Jan. 10
Feb. 1	Steel House—Wilmington, Del.	
Feb. 4	Hospital—Augusta, Ga. Adv. Jan. 3 to Jan. 17.	Jan. 10 Jan. 10
Feb. 5	Steel Piling — Louisville, Ky.	
Feb. 6	Storehouse—Pearl Harbor, H. T.	Jan. 10
Feb. 7	Steel Roof Trusses—Florence, Ala. Adv. Jan. 17.	Dec. 20 Jan. 17
Feb. 8	Steel and Bolts—Owensboro, Ky.	
Feb. 11	Sub-Post Office—Memphis, Tenn. Adv. Jan. 10 and 17.	Jan. 10 Jan. 10
Feb. 11	Laundry — Northampton, Mass. Adv. Jan. 17.	Jan. 17
Feb. 11	Steel Castings, etc.—Louisville, Ky. Adv. Jan. 17.	Jan. 17
Feb. 12	Gasoline Hoist, etc.—Ketchikan, Alaska	Jan. 10
Feb. 14	Stone—Portland, Ore. Adv. Jan. 17.	Jan. 17
Feb. 15	Kitchen and Mess Hall — Prescott, Ariz. Adv. Jan. 17.	Jan. 17
Feb. 15	Steel Forging, etc.—Owensboro, Ky.	Jan. 17
Mar. 1	Turbines—Florence, Ala. Adv. Jan. 17.	Jan. 17
UNCLASSIFIED		
Jan. 21	Jetty—New Westminster, B. C.	
Jan. 22	Conduit—New York Adv. Jan. 3 to Jan. 17.	Jan. 3 Jan. 10
Jan. 22	Pier—Baltimore, Md.	Jan. 17
Jan. 24	Distribution Lines—Modesto, Calif.	
Jan. 24	Wharf—Houston, Tex.	Jan. 17
Jan. 25	Heating and Ventilating Apparatus—New York, N. Y.	Jan. 17
Jan. 28	Bulkhead—Bayonne, N. J. Adv. Jan. 10 and 17.	Jan. 17
Feb. 11	Transformers and Spares—Melbourne, Australia Adv. Jan. 3 to Jan. 17.	Jan. 3
Mar. 31	Hopper Dredge — Brisbane, Queensland, Australia	Nov. 1
Apr. 30	Headworks—Wellington, New Zealand	Dec. 13
MATERIALS AND EQUIPMENT		
Jan. 22	Bituminous Patching Material —Trenton, N. J.	Jan. 10
Jan. 22	Norway Pine—Minneapolis, Minn.	Jan. 17
Jan. 25	Mining Equipment—Duluth, Minn.	Jan. 10
Jan. 29	Cable Guard Rail, etc. — Trenton, N. J. 6	Jan. 17
Feb. 1	Crusher, Elevator, etc. — Oglesby, Ga.	Jan. 10
Feb. 4	Cletracs—Gilroy, Calif.	Jan. 17

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., New York—State Hospital Comn., Albany, soon takes bids high pressure fire line, 2 mi. 6- to 18-in. c.i. pipe, 20 hydrants, 4 electric pumps and pump house, at Manhattan Hospital, Wards Island, here. $90,000.

N. C., Rutherforditon—Plans extension of waterworks to increase supply by 1,000,000 gal. $30,000. Mees & Mees, Kinney Bldg., Charlotte, engrs.

Fla., Fort Meyers—City voted $80,000 bonds for mains. F. E. Smith, clk. Noted Dec. 20.

Fla., Orlando—Voted $100,000 bonds for improvements to water and light plants. G. B. Ranney, Orlando, engr.

Tenn., Jackson—City plans improvements and additions to waterworks system. $100,000. S. Lancaster, Jackson, engr. Noted Oct. 6.

Tenn., Lewisburg—Voted $150,000 bonds for waterworks system. Engineer not selected.

O., Painesville—Plans extending mains, improving waterworks, incl. new pumps. $100,000.

O., Sidney—Baltimore & Ohio R.R., Central Union Depot, Cincinnati, plans water treating plant, here. $30,000. J. E. Nelson Co., 3240 South Michigan Ave., Chicago, Ill., engrs.

O., Perrysburg—Plans new water supply from Toledo. To exceed $15,000. Engineer not announced.

Ill., Jonesboro—Having preliminary plans prepared waterworks, tower, tank, 4- and 6-in. distribution mains and fire hydrants, etc. W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs.

Wis., Eau Claire—Plans 3 m.g. reinforced con. reservoir. J. T. Hurd, City Hall, engr.

Minn., Willmar—Making plans waterworks, power and light systems. $150,000. H. Gunderson, clk. Toltz, King & Day, 1410 Pioneer Bldg., St. Paul, engrs.

Mo., Thayer—Voted $75,000 bonds for waterworks, distribution system and ice plant. Alexander Eng. Co., Springfield, engrs. Noted Dec. 27.

Tex., Brenham—Jan. 25 to vote on $25,000 bonds filtration plant. A. M. Krug, city secy.

Okla., Jefferson—Making preliminary plans extension to pumping equipment and distribution system, well, triplex pump and motor, 7,000 ft. 4 in.- to 6 in.- c.i. $28,000. Engineer not selected.

Wash., Kalama—Plans municipal water supply, using water of Woolford nad Italian Creeks. Plans include dam 50 ft. long, 20 ft. high, in each stream, to furnish 700,000 gal. water. $70,000.

Calif., Madera—See "Excavation, Drainage, Irrigation."

Ont., Beamsville—Plans pumping plant at lake or storage reservoir. $40,000. C. W. Tufford, chn. Water Bd.

Ont., Brantford—Voted $90,000 bonds for extensions and improvements. F. P. Adams, city engr.

Calif., Oakland—City abandons proposed contract with East Bay Water Co. to install water mains, $160,000, city to pay for same in yearly installments. New plans will be made. $610,000. W. W. Harmon, city engr. Noted Dec. 20.

BIDS DESIRED

Mass., Boston—Jan. 18, by F. P. Rock, supt. Supply Dept., City Hall Annex, six thousand five hundred pieces 8-in., two hundred 3-in., one hundred and fifty 1-in., one hundred 1½-in., seventy-five 2-in. and fifty 3-in. water meters.

N. Y., Saranac Lake—Water Dept. taking bids 2 new centrifugal (preferred) motor driven water pumps. $16,000. Horizontal steam pumps will be considered. Noted Mar. 15.

Pa., McKeesport—Feb. 14, by City Council, at office City Clerk, addition to filtration plant, new pump plant, stand pipe, pipe lines, etc. Hudson & Myron, 808 Wabash Bldg., Pittsburgh, engrs; adv. E. N.-R. Jan. 17.

W. Va., Fairmont—Feb. 11 (extended date), at office of Director of Waterworks, filtration plant. Fuller & McClintock, 170 Bway., New York City, and 600 Walnut St., Kansas City, Mo., engrs. Noted Jan. 10; adv. E. N.-R. Jan. 17.

Ky., Elizabethtown—Feb. 5, by Mayor and City Council, waterworks improvements. To exceed $25,000. Former bids rejected. This corrects report in Jan. 3 issue.

Colo., Denver—Feb. 4, by Bd. Water Comrs., 1509 Cleveland Pl., 36 in. Class B c.i. main from West 2nd Ave. and Federal Blvd. to Ashland Ave. Reservoir, etc. B. Lowther, ch. engr.; adv. E. N.-R. Jan. 17.

Tenn., Gallatin—Feb. 7, by Mayor and Bd. Aldermen, improvements to waterworks incl. gravity type filtration plant of 1,250,000 gal. capacity, work to be awarded in 4 contracts, as follows, (a) 4 centrifugal pumps and motors, (b) installing filter equipment, (c) constructing rein.-con. filtration plant, etc., (d) furnishing laboratory equipment. B. H. Klyce, 4th and First Natl. Bank Bldg., Nashville, engr. Noted Oct. 6.

O., Cincinnati—Jan. 16, at office of C. F. Hornberger, dir. Pub. Serv., furnishing c.i. pipe, special and miscellaneous castings

Waterworks (Continued)

during 1924; also furnishing and laying c.i. mains, special castings, fire hydrants, fire valves and miscellaneous work in Colerain Pike, Palos and Carothers Sts., Highland, McKeone, Hart and Hedge Aves. E. P. Durr, secy.

Wis., Milwaukee — Jan. 24, by Central Bd. Purchases 2,500 tons 6- to 16-in Class C c.i. water pipe, 150 tons special castings for Class C pipe, stop cocks, boxes, etc.

Wis., Two Rivers—Jan. 25, by J. Doleysh, city clk., 124.03 tons 4- to 6-in. Class C c.i. water pipe, 3 tons Class D special casings, seven 6 in. Eddy fire hydrants, twenty 6 in. and two 4 in. valves.

Ia., What Cheer — See "Material and Equipment."

Minn., Minneapolis — Jan. 21, by F. S. Gram, city purch. agt., furnishing Water Dept., with five thousand ¾-in. corporation cocks, four thousand ¾-in. and two hundred 1-in. curb cocks; also three hundred ¾-in. and one hundred 1-in. curb cocks of different type. N. W. Elsberg, city engr.

Okla., Stillwater—Jan. 25, by city, waterworks pumping equipment, reservoir, distribution mains, etc. $150,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 20.

BIDS RECEIVED

Minn., St. Paul — H. W. Austin, city purch. agt., Jan. 2, 35,579 lb. structural steel and 4,023 lb. miscellaneous steel and iron castings, from St. Paul Fdry. Co., Como Ave. and Mackubin St., $2,287; hub-end, nut operated L. B. gate valves, (a) twenty 4-in. (b) two hundred and six 6-in. (c) thirty 8-in. (d) forty 12-in. (e) thirty 16-in. (f) five 20-in. and (g) four 24-in. spur geared with by-pass, from South Park Fdry. & Machine Co., 23 East 6th St. (a) $12 each (b) $19.50 (c) $31.50 (d) $65; Michigan Valve & Fdry. Co, Amer. Trust Bldg., Detroit, Mich., (a) $14 (b) $24 (c) $39 (d) $75.90 (e) $140.80 (f) $242.10 (g) $440.40.

Wash., Kelso — City Council, Jan. 5, pumping and purification plant, 1 m.g.p.d. capacity, from Hedges & Hels, Kelso, $21,511. Engrs. est. $25,000. Noted Jan. 3.

CONTRACTS AWARDED

Md., Baltimore—Mayor and City Council, furnishing and delivering c.i. pipe and fittings for Water Dept., to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $234,389. Noted Jan. 10.

N. C., Conover — Water and sewerage systems, to Tucker & Laxton, Inc., Realty Bldg., Charlotte, $30,250 exclusive of cost of waterworks materials which will be furnished by town. Noted Jan. 3.

Wis., Milwaukee—Oil removal plant, to Permutit Co., 440 4th Ave., New York, $6,150; 500 lb. electric freight elevator, to Rosenberg Elevator Co., 1647 Richards St., $3,178

Tex., Dallas—Beverly Hills Fresh Water Dist., c/o C. H. Leinbach, Deere Bldg., main extensions, incl. 102,500 ft. 2- to 8-in. pipe, to J. C. Winslett, 1001½ Main St., $35,000.

Ont., Ford—R. S. Braid, secy. Essex Border Utilities Comn., Heintzman Bldg., Windsor, mechanical filtration plant, general contract to Strain & Emery Ltd., Dowler Bldg., Windsor, $350,582; 42 in. steel piping to Toronto Iron Wks., Cherry St., Toronto $7,680; c.i. pipe and specials, to F. Hankin & Co., Ltd., 386 King St. W., Toronto, $26,783; controls and operating equipment, to Canadian International Filters, Confederation Life Bldg., Toronto, $12,325. Noted Dec. 13.

Sewers

PROPOSED WORK

Conn., Bridgeport—Plans storm sewers in North Main St. and Bethany Chapel System, $30,000; sanitary and storm water sewer in Beachwood Park Sect., $75,000; storm sewer in Capitol Ave. from North Main to Lindley Sts., $25,000; sanitary trunk system in Mountain Grove St., $50,000; miscellaneous storm and sanitary sewers in smaller streets throughout city, $100,000. J. A. McElroy, City Hall, engr.

N. Y., Hamburg—Making preliminary plans sewers and disposal plant. $350,000. G. C. Diehl, 575 Ellicott Sq. Bldg., Buffalo, engr.

Fla., Fort Meyers — City voted $75,000 bonds for sanitary sewers, also $70,000 for storm sewers. F. E. Smith, clk. Noted Dec. 20.

O., Youngstown — Plans approximately 45,000 ft. sewers in Calvary Run and Cochran Park. $145,000. I. Turner, city engr.

Ill., Jonesboro—Having preliminary plans prepared 8 in. sanitary sewers and disposal plant. W. A. Fueller Co., 1917 Railway Ex., St. Louis, Mo., engrs.

Mo., St. Louis—Bd. Pub. Serv. making plans North Baden Dist. Sewer, 3,000 ft. of 14 ft. brick horseshoe, $220,000; Ohio-Montrose relief sewer, 21,310 ft. 8- to 36-in. vitr. clay and 2,695 ft. 42- to 66-in. segmental block pipe, 50,008 cu.yd. excav., etc., $500,000; Elliot and Warne relief sewers $800,000; and 2nd section of River Des Peres sewer from Southwest to Knox Aves., $500,000. W. W. Horner, city engr.

Ark., McGehee — Plans sewer improvements. Probably $50,000. Private plans.

Tex., Alvarado—Jan. 29, to vote on $50,000 bonds for sewerage system. Address Mayor.

Tex., Dallas—See "Streets and Roads."

Okla., Lawton—City having plans prepared by W. V. Montin, Lawton, sewage disposal plant, Imhoff tank and filters, $40,000. Noted Oct. 18.

Utah, Salt Lake City—Plans 3¼ mi. 18- to 80-in. storm sewers from eastern portion of city to Jordan River, 4th South Storm Sewer. $250,000.

Ont., Galt—Plans storm sewer outlets in Waterloo and Forbes Aves. $37,000. Bids will be called about end of March. "J. McCartney," city engr.

Ont., Niagara Falls—Having plans prepared sewerage system in lower Niagara Falls, Stamford Twp. $425,000. T. R. Stokes, Portage Rd., engr.

BIDS DESIRED

N. Y., Pleasantville — Feb. 11, by Bd. Sewer Comrs., Village Hall, disposal works Contr. 1, sewage collecting system, Contr. 2. J. O. Derby, engr.; adv. E. N.-R. Jan. 17.

Pa., Ferndale—Jan. 22, by Boro Council, 1,000 ft. 8 in. sanitary sewers in Glenwood Ave., West St. and Hickory Alley. L. R. Owen, Otto Bldg., Johnstown, engr.

D. C., Wash.—Jan. 25, constructing 2,700 ft. trunk, service and sanitary sewers in Connecticut and Illinois Aves., Holbrook and Jenifer Sts., terra cotta and concrete pipe.

Ill., Mt. Morris—Jan. 25, by Bd. Local Impvts., 10,000 ft. sanitary sewers and 2 treatment plants. $80,000. J. H. Ritson, pres. Private plans.

Ia., Oelwein—Feb. 6, by City Council, extensions to sewage disposal plant. E. B. Tourtellot, Oelwein, engr.; adv. E. N.-R. Jan. 17.

Minn., Minneapolis—Jan. 22, by F. S. Gram, city purch. agt., furnishing 400 tons special sewer castings, 190,000 vitr. paving brick for sewer construction, sewer pipe and segment blocks, for 1924 season. N. W. Elsberg, city engr.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Jan. 9 sewers in (1) Narrows Ave. engrs. est. $800 (2) Forbell Ave. $700 (3) 24th Ave. $37,586 (4) East 36th St. $2,245 (5) Miller Ave. $400 (6) 70th St. $400 (7) East 31st St. $400, from C. F. Vacharas, 645 40th St. (1) 108% engineers estimate; Fenlon Contg. Co., (2) 99%; B. Peconi & Sons (3) 73% (4) 90%; R. Iobino (5) 91% (6) 88% (7) 92%. Noted Jan. 3.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 14, sewers across Queens Blvd., intersecting various streets, from F. L. Paino, 572 1st St., Brooklyn, (a) $226,159 (b) $224,543; in Patterson Ave., from Necaro Co., Inc., 97 Court St., Brooklyn, $800,614; Astoria Ave., from J. Gallo, 203 Division St., Brooklyn, $19,800; Harman St., from Peace Bros., Inc., 57 North Laurence St., Flushing, $11,091; Varian Pl., from J. F. Clancy, Inc., 460 Lockwood St., Astoria, $5,219. Noted Jan. 10.

Minn., St. Paul—H. W. Austin, city purch. agt., Jan. 2, Portland Ave. Outfall sewer from Mississippi River to point 990 ft. east, and West 7th St. from Parmer St. to Albion Ave., from De Graff Wolff, 985 Scheffer St., $25,780 and $26,100 respectively; Davern-West 7th St. Sewer System No. 1, from Thornton Bros. Co., 318 Endicott Bldg., $206,587.

Calif., Newport Beach — City Council, Balboa Island sewerage system, from Gibbons & Reed, 905 South Olive St., Los Angeles, $133,654. Noted Dec. 20.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 159th and 90th Sts., to J. F. Clancy, Inc., 460 Lockwood St., Astoria, $2,649 and $13,425 respectively; Suwanee Ave., to E. J. Kelly, Jr., $31,309. Noted Jan. 10.

Md., Baltimore—Bd. Awards, 4,200 ft. 8- to 27-in. sanitary sewers, Dist. 24-B Trunk Sewer, Sanitary Contr. 208, to Aiello Constr. Co., 4th and Gough Sts., $131,000. Noted Jan. 3.

N. C., Conover—See "Waterworks."

N. C., Laurinburg—Sanitary sewer extensions, to T. D. Noan, 22 Highland Ave., Detroit, Mich., $38,837. Noted Nov. 29.

Mich., Detroit—Pumps, motors, air compressors, etc., in sewage pumping station, to Miller-York Inc., 1523 East Congress St., $74,900. Noted Jan. 10.

Ill., Lewiston—For 13,000 ft. 8-in. vitr. clay sewer, disposal plant, etc., to Anno & Nohl, Havana, $19,922. Noted Jan. 3.

Okla., Oklahoma City—New storm sewer, 7,669 ft., 15 in. to 60 in. concrete pipe, in Elway., Pottawatomie, Robinson and Harvey Sts., to Municipal Excavator Co., 200 East Main St., $57,949.

Utah, Salt Lake City—Forest Dale Sewer Extension, 40,000 ft. 8- to 21-in. pipe, 32,000 yd. excav., to J. O'Conner, Utah Savings Bldg., $105,000; sewer extension 419, 3rd St. S. to 9th St. S., and 7th St. W. to Goshen St., 10,000 ft. 8- to 12-in. pipe, to J. L. Griffith Co., Salt Lake City, $28,000.

Calif., Morgan Hill — Sewerage system and disposal plant, to Heafey-Moore-McNair, 2030 High St., Oakland, $51,296. Noted Dec. 27.

Waste Disposal

PROPOSED WORK

N. Y., Albany—Making plans incinerator and garbage reduction plant. $400,000. J. G. Brennan, city engr.

Calif., Beverly Hills—Having plans prepared sewage treatment plant. To exceed $25,000. Salisbury, Bradshaw & Taylor, Mortgage Guarantee Bldg., Los Angeles, consult. engrs. Noted July 26.

Bridges

PROPOSED WORK

Conn., New Haven—Bureau Eng. making preliminary plans steel and concrete arch., 38 ft. span, on Willow St. $150,000. E. S. Nettleton, city engr.

N. Y., Buffalo—Comr. Pub. Wks., Municipal Bldg., rejected bids Dec. 26, reconstructing, renewal and protection of viaduct over tracks of Lake Shore & Michigan Southern R.R., Fulton St., new truss span for Elk-Abbott viaduct over tracks of Erie R.R., etc., replacing 3 old truss spans with 3 new ones on Elk St. viaduct, etc., replacing 1 old truss with one 113 ft. 6 in. new truss span on Elk-Abbott viaduct, etc., and old truss span with one 105 ft. new truss span on Van Rensselaer St. viaduct, etc. Will readvertise. Noted Jan. 10.

N. Y., Schenectady—State Hy. Dept., Albany had plans prepared removing defective beams and replacing same with new ones, new flooring, repairing foundations, grading approaches, etc., on Schenectady-Scotia Bridge. $30,000.

Fla., Sarasota—See "Streets and Roads."

Fla., Sarasota—Sarasota Co. election Jan. 29, to vote on $45,000 bonds for bridge and fill, Blackburn Point; $45,000 bridge and fill, Stickney Point Rd. O. E. Loesch, clk.

Kentucky—Norfolk & Western R.R. Co., Norfolk, plans steel girder bridge over Tug Folk of Big Sandy River, Pike Co. $25,000. W. P. Wiltsee, ch. engr.

Kentucky—Norfolk & Western R.R. Co., Norfolk, plans steel girder bridge over Tug Fork of Big Sandy River Pike Co. $25,000. W. P. Wiltsee, ch. engr.

Ky., Whitesburg—See "Streets and Roads."

Ill, Aurora—City plans steel truss highway bridge over Fox River. To exceed $125,000.

South Dakota—State Hy. Comn., Pierre, plans 3,000 ft. bridge over Missouri River. $350,000. F. D. Hudgins, state engr.

Tex., Sulphur Springs—See "Streets and Roads."

Okla., Chickasha — Grady Co. election Mar 4, to vote on $100,000 bond issue for 2 concrete bridges over Washita River. P. A. Little, Chickasha, engr.

Colorado — State Hy. Dept., Denver, adopted budget for 1924. Governor approved same. Work includes bridge over railroad tracks north of Colorado Springs, Dist. 5, Federal Aid Project 276, $35,000; bridge south of Craig, Dist. 6, Federal Aid Project 282, $40,000.

Bridges (Continued)

Calif., Santa Ana — Orange Co. having plans prepared bridge over Newport Bay between Newport Blvd. and Palisades. $75,000. J. L. McBride, co. rd. comr.

Calif., Weitchpec—Humboldt Co. (Eureka) had plans prepared reconstructing cable suspension bridge over Klamath River, here, consists of steel truss span, 385 ft. long, steel towers. $25,000. A. J. Logan, co. surv.

BIDS DESIRED

New York—Feb. 20, at office of J. D. Bradburn, clk. town of Aurora, East Aurora, Bridges 3, 16, 18, 20, 21, 22 and 25, Erie Co. G. C. Diehl, 577 Ellicott Sq., Buffalo, engr.; adv. E. N.-R. Jan. 17.

Pa., Phila.—Feb. 13, by Delaware River Bridge Joint Comn., Room 806 Widener Bldg., constructing Phila. and Camden approach piers of bridge over Delaware River between here and Camden, N. J., Contrs. 11 and 12; adv. E. N.-R. Jan. 17.

North Carolina — See "Streets and Roads."

Louisiana—Jan. 22, by State Hy. Dept., Reymond Bldg., Baton Rouge, constructing Bayou Vidal Bridge on Federal Aid Project 134, Madison and Tensas Parishes; Bayou Macon Bridge on Federal Aid Project 135 B, Madison and Richland Parishes; Bayou Vermillion Bridge on Federal Aid Project 136 B, Lafayette Parish. J. M. Fourmy, ch. engr.

O., Cambridge—Feb. 1, by Dept. Highways and Pub. Wks., Columbus, improving section of viaduct over tracks of Baltimore & Ohio R.R. and Pennsylvania R.R., Wills Creek, Dewey Ave., here, rein.-con. $192,780. A. V. Donaheys, dir. highways.

S. D., Yankton — Feb. 5, by Meridian Highway Bridge Co., approach and concrete slab on truss spans, 2,230 cu.yd. concrete, 282,000 lb. reinforcing and 80,000 lb. structural steel, 4,580 sq.yd. asphalt paving, 1,050 sq.yd. brick paving, 1 frame office building and lights for entire bridge. Harrington, Howard & Ash, 1012 Baltimore St., Kansas City, Mo., engrs.

California—Feb. 4, by State Hy. Comn., Sacramento, bridge over Cedar Creek, 18 mi. east of Gilroy, Santa Clara Co., three 42 ft. 4 in. rein.-con. girder spans with concrete piers, abutments and wing walls, also across North Fork Pacheco Creek about 21 mi. east of Gilroy, three 50 ft. and two 34 ft. rein.-con. girder spans on concrete bents. R. M. Morton, state highway engr.

BIDS RECEIVED

Kentucky—State Hy. Dept., Frankfort, 540 ft. steel bridge over Cumberland River, Harlan Co., one 240 ft. and two 150 ft. spans, from F. K. Ketler Co., 7344 Yates Ave., Chicago, $44,377; 4 rein.-con. abutments and 1 concrete pier, from Blanchard Crocker Co., Lexington, $24,359.

Wash., Seattle—Bd. Pub. Wks., Jan. 11, West Spokane St. Bridge, from H. Pederson, Alaska Bldg., $154,536. Noted Dec. 20.

CONTRACTS AWARDED

Pa., Northumberland—Pennsylvania R.R. superstructure for 157 ft. two track through truss span bridge across Susquehanna River from here to Sunbury, to Bethlehem Steel Co., Bethlehem.

Miss., Jackson — For 382 ft. rein.-con. bridge, 50 ft. wide, 20 ft. high, over Cut Off Canal, between Capitol and Pearl Sts., to Hayes & Lewis, Jackson, $58,300.

O., East Sparta—Stark Co., Court House, Canton, concrete bridge, here, to Roberts Supply Co., 419-21 Opera Blk., Lima, $58,808. Engrs. est. $65,000.

O., Navarre—Stark Co., Court House, Canton, concrete bridge, here, to Roberts Supply Co., 419-21 Opera Blk., Lima, $43,533. Engrs. est. $50,000.

Ind., Indianapolis—Marion Co., 3 span rein.-con. bridge over Fall Creek on Delaware St., to M. E. White, 130 North Wells St., Chicago, $172,336. Noted Nov. 29.

Ia., Sioux City—Bd. Supervs. Woodbury Co., 370 ft. bridge over Little Sioux River, three 90 ft. and two 50 ft. steel truss spans, to Des Moines Steel Co., 415 S. W. 5th St., Des Moines, $40,000.

Dams

PROPOSED WORK

Wis., Wausau—See "Industrial Works."

Missouri — Central Missouri Power & Water Co., c/o C. E. Jacoby, engr. Shuckert Bldg., Kansas City, having preliminary plans prepared power dam, 40,000 kw. capacity, on Gasconade River near mouth of Piney River, 90 mi. from St. Louis.

Calif., Madera—See "Excavation, Drainage, Irrigation."

Que., Bryson—Ottawa River Power Co., Ltd., Montreal, plans dam and power house, on Calumet Island, here. L. A. Hendt, Montreal, engr. Generators to be supplied by Canadian Westinghouse Co. Ltd., Montreal, $250,000.

Railways

PROPOSED WORK

Tennessee—Southern R.R. Co., 13th St. and Pennsylvania Ave., plans 17 mi. railroad cutoff between Bulls Gap and Leadville. J. B. Akers, ch. engr.

Indiana — See "Unclassified" under Ft. Wayne.

Indiana—Cleveland, Cincinnati, Chicago & St. Louis R.R., Cleveland, plans enlarging trackage in yards at Petersburg, Ind. $25,000-$50,000. C. A. Paquette, Cincinnati, ch. engr.

Indiana—Wabash R.R., Division Headquarters, Peru, plans to expend $1,000,000 for improvements in and around Peru, incl. new yards east of city, new car and locomotive repair shops. R. H. Howard, St. Louis, Mo., ch. engr.

Texas—Ft. Worth Belt Line & Terminal Warehouse Co., Ft. Worth, having surveys made belt line railroad around city. $1,000,000. K. Roby, Court House, engr.

Calif., Dos Rios—See "Unclassified."

CONTRACTS AWARDED

Oregon—See "Unclassified."

Excavation, Drainage, Irrigation

PROPOSED WORK

Ark., Brookland—Thompson Creek D. D. having preliminary plans prepared 10 mi. ditches, 500,000 cu.yd. excav., from floating dredge. Cobb & Lee, Amer. Trust Bldg., Jonesboro, engrs.

Ark. Jonesboro—Cane Island D. D. 26, takes bids about Feb. 15, remaining dredge and drainage work. $90,000. Cobb & Lee, Amer. Trust Bldg., engrs.

Ark., Jonesboro — See "Unclassified" under levee.

Ark., Lake City — See "Unclassified" under levee.

Calif., Madera—San Joaquin Water Storage Dist. had surveys made for large storage dam on San Joaquin River, pumping plants and other irrigation works, about 550,000 acres in district. $33,000,000. H. Barnes, Madera, consult. engr. Chief engineer not selected.

Calif., Ukiah—C. Kasch, I.O.O.F. Bldg., representing interests, plans irrigation works for district in Potter Valley. To exceed $25,000. Engineer not selected.

Calif., Williams—William Irrigation Dist. had surveys made 13 mi. canal connecting Glenn-Colusa and Williams Irrigation Dists., incl. 175,000 cu.yd. earthwork. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, consult. engr.

BIDS DESIRED

Ore., Danner—Feb. 4, by Bd. Directors Jordan Valley Irrigation Dist., at office C. E. Lanning, secy. widening present lower feeder of Jordan Valley project, raising Antelope dam, constructing outlet from dam, main canals and laterals, etc.

Ont., St. Catharines—Jan. 31, (extended date), by J. W. Pugsley, secy. Dept. Rys. & Canals, Parliament Bldg., Ottawa, Sect. 8, Welland Ship Canal, $5,000,000 to $8,000,000. W. A. Bowden, ch. engr. Noted Jan. 3.

BIDS RECEIVED

New York—J. A. Delaney, comr. Docks, Pier "A" foot of Battery Pl., New York City, Jan. 14, dredging channel, constructing dikes, etc., Queens Boro, Contr. 1818, from Arundel Corp., foot of Fulton St., Brooklyn, (b) $504,814 (c) $811,817. Noted Jan. 10.

CONTRACTS AWARDED

Miss., Charleston—Panola Quitman D. D., draining 90 acres, 6,500,000 cu.ft. earth excav., to N. C. McGinnis & Co., Exch. Bldg., Memphis, Tenn. Engrs. est. $1,500,000.

Ind., Crown Point—Lake Co., constructing Beaver Dam Ditch No. 3, main ditch and 16 laterals, 407,646 cu.yd. open work, 57,008 ft. 8- to 36-in. tile, to Walb Contg. Co., La Grange, $126,000.

Calif., Blythe—Palo Verde D.D. rescinded call for bids for west side drain. Work may be done by day labor. Noted Dec. 20.

Streets and Roads

PROPOSED WORK

Conn., Windham (Willimantic, P. O.)—Plans paving North Windham Rd., concrete. $25,000. F. P. Fenton, town clk.

N. Y., Albany—Plans 54 ft. carriageway with grass plot 18 ft. wide in center, 6 ft. sidewalks, and asphalt concrete paving Manning Blvd. S. $25,000. J. G. Brennan, city engr.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, rejected bids Dec. 27, grading Flatbush Ave. Will readvertise. Noted Dec. 20.

New Jersey—State Hy. Dept., Trenton, plans improving 3.5 mi. Route 9, Dunellen-Middlesex Rd., Middlesex Co. W. G. Sloan, state highway engr.

N. J., New Brunswick—Plans paving several streets. $194,000. A. Atkinson, New Brunswick, engr.

N. J. Trenton—Plans paving and repaving several streets. $500,000. J. E. English, City Hall, engr.

W. Va., Huntington—See "Unclassified."

Fla., Sarasota—Sarasota Co., election Jan. 29 to vote on $75,000 bonds, grading and 9 ft. macadam paving 15 mi. Fruitville-Miakka Rd., $54,000, 9 mi. Verna-Miakka Rd., $60,000, 10 mi. Lockwood Ridge Rd.; $78,000 widening, grading and 9 ft. macadam paving 14 mi. Madison Grove Rd.; $128,000 grading, 9 ft. macadam paving and concrete bridge over Miakka River, 16 mi. Bee Ridge-Miakka River Rd.; $65,000 resurfacing with 9 ft. macadam, Venice Englewood Rd.; $40,000 grading and 9 ft. shell paving, 10 mi. Little Sarasota Key Rd. O. E. Roesch, clk.

Ala., Albany—Soon takes bids bitulithic paving 9 blocks 6th and 7th Aves. W., 8th Ave. and Jackson St. $50,000. W. S. Bingham, city engr.

Miss., Columbus — Having preliminary plans prepared grading and paving with brick, asphaltic concrete or concrete 60,000 ft. various streets. $500,000. R. L. Totten, Brown-Mark Bldg., Birmingham, Ala., engr.

Miss., Meridian — Had plans prepared paving, curbing and guttering 159 blocks. W. H. White, city clk.

La., New Iberia—See "Industrial Works."

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans to construct during 1924 152.5 mi. highway, 9 to 18 ft. wide, in Blount, Coffee, Cumberland, De Kalb, Grundy, Jefferson, Loudon, Marion, Monroe, Montgomery, Pickett, Putnam, Roane and Sullivan Counties; grade 25 mi., 16 ft., in Chester, Hardin and McNairy Counties; with bituminous macadam 5.5 mi., 14 ft., Trousdale Co.; 8 mi., 16 ft., probably bituminous macadam, Davidson Co.; grade and gravel surface 13 mi., 16 ft., in Giles and Hardin Counties; grade and probably gravel surface 11.4 mi., 16 ft., Perry Co.; surface (oil treatment) 47.3 mi., 16 ft., in Dickson, Lawrence, Lewis, Marshall and Maury Counties. Following are Federal Aid Projects for 1924, construct 184 mi., 16 to 18 ft., Anderson, Cocke, Crockett, Dyer, Fayette, Gibson, Greene, Hamblen, Hardeman, Henderson, Madison, Roane and Tipton Counties; grade and gravel surface 12.6 mi., 16 ft., Obion Co.; grade and surface 18.7 mi., 16 to 18 ft., Lincoln and Maury Counties; surface 11 mi., 16 ft., Smith Co.; construct, probably gravel or chert 34.8 mi., 16 ft., Hardin and Wayne Counties; construct 55.2 mi., 16 to 18 ft., Bedford, Campbell, Cannon, Gibson, Hamilton, Lincoln and Marion Counties; surveys being made 88 mi., 18 ft., Bradley, Campbell, Carroll, Lauderdale, Louden and Madison Counties; concrete bridge over Little River, near Marysville. J. G. Creveling, highway comr. Noted Dec. 27.

Tenn., Bolivar—Hardeman Co. plans to sell $55,000 bonds for highway from Bolivar to Fayette Co. line.

Tenn., Nashville—Plans constructing and paving 10 streets, probably rock or sheet asphalt. W. W. Southgate, City Hall, engr.

Tenn., Rockwood—Plans to improve 1.5 mi. Chamberlain Ave. and Front St., probably asphalt.

Ky., Whitesburg — Letcher Co. election Mar. 15, to vote on $250,000 bonds for roads and bridges. Address Clerk.

O., Cleveland — Takes bids in spring grading, curbing and paving Lakeshore Blvd., Fairmount and Henninger Rds., Forest, Gordon and Hope Courts, Camden, Cedar, Carlton, Diana, Durkee, Dundee, Denison, Ella, Euclid, Folk, Fidelity, Ferris, Forest, Frankfort, Gifford, Hough, Heath, Headley, Hamilton and Iroquois Aves., Harvard Ave. from East 123rd to East 131st Sts., Harvard Ave. from East 110th to East 116th Sts., Lorain Ave. from West 25th to West 55th Sts., Lorain Ave. to old city limits. $1,000,000. R. Hoffman, City Hall, engr.

O., Cleveland — Takes bids in spring grading, curbing and paving West 69th Pl., Moore and Woodward Courts, Milverton, Nathaniel, Wheelock and Wentworth Rds., Mapleside, Market, Natchez, Payne, Proctor, Pershing, Revere, Raymond, Sandusky, Treadway and Wagner Aves., East

Streets and Roads **(Continued)**

37th, 33rd, 30th, 60th, 84th, 85th, 97th, 100th, 103rd, 106th, 113th, 114th, 118th, 119th, 120th, 105th, 106th, 110th, 139th, 130th, 123rd, 128th, 135th, 143rd, 140th, 147th, 126th, 153rd, 127th, 167th, and 176th Sts., West 4th, 20th, 52nd, 42nd, 44th, 59th, 68th, 86th, 105th, 114th, 117th and 103rd Sts., St. Clair Ave. from East Blvd. to Penobscot Ave., St. Clair Ave. from Woodworth Rd. to East 140th St., St. Clair Ave. from East 140th to East 152nd Sts., St. Clair Ave. from London to Nottingham Rds., St. Clair Ave. from East 152nd St. to London Rd., Saranec Rd. from Aspinwall Ave. to East 142nd St., East 55th St. from Woodland to Grand Aves., East 55th St. from Scovill to Carnegie Aves., East 55th St. from Scovill to Woodland Aves., East 112th St. and Clarebird Ave. from Union Ave. to East 116th St., East 112th St. and Charlotte Rd. from Miles Ave. to East 111th St., East 137th St. from Kinsman Rd. to Abell Ave., 139th St. from Union to Melzer Aves., East 137th St. from Caine to Beachwood Aves., East 139th St. from Kinsman to Abell Aves. $2,500,000. R. Hoffman, city engr.

O., Lisbon—Columbiana Co. plans constructing 2 mi. or more Fairfield-Elkron-Middleton Twp. Rd., 20 ft. $150,000. Cost to be borne by above townships. Will mature in spring. L. C. Kirk, Lisbon, engr.

Indiana—State Hy. Dept., Indianapolis, plans cement paving highways connecting Anderson with Indianapolis, Muncie and Alexandria. Work includes 4 mi. Alexandria Pike, 12 mi. road from Chesterfield to point east of Yorktown, 6.03 mi. from McCordsville to Fortville, 5.95 mi. from Fortville to point south of Pendleton and 8.29 mi. to Anderson. Total $1,000,000. Above work will be let in February. J. D. Williams, dir.

Indiana—State Hy. Dept., Indianapolis, rejected bids concrete paving 7.736 mi. Federal Aid Rd. 74, Sect. A, Boone Co. and 6.032 mi. Federal Aid Rd. 21, Sect. B, Clark Co. Noted Jan. 10.

Ind., Ft. Wayne—Allen Co. plans resurfacing and widening from 12 and 16 ft. to 18 ft., 5.5 mi. Bass Rd., various materials will be considered. $50,000. W. G. Tonkel, co. supt. roads.

Ind., Richmond—Wayne Co. plans paving 1½ mi. Abington Pike, 18 ft., cement concrete. $30,000. H. Thornburg, aud.

Mich., Plainwell — Plans to pave West Bridge and Allegan Sts. $25,000.

Wis., Janesville—Making plans paving 8 mi. various streets, one course rein.-con. $300,000-$350,000. C. V. Kerch, City Hall, engr.

Kan., Topeka—Preparing plans paving 30 blocks, (3 mi.), 2 in. asphaltic concrete on 7 in. concrete; 15 blocks, brick or sheet asphalt on 7 in. concrete; 30 blocks 6 in. concrete alleys, 15 ft wide, all to have concrete curbs and gutters. $242,000. W. E. Baldrey, City Hall, engr.

South Dakota—State Hy. Comn., Pierre, plans to grade 600 mi. road (Federal Aid) $1,850,000, (State Aid) $240,000; gravel surfacing 450 mi. road, (Federal Aid) $855,000. F. D. Hudgins, state engr.

S. D., Canton—Making plans paving 20 blocks 5th and Main Sts. $75,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs.

Missouri — State Hy. Dept., Jefferson City, plans concrete paving 47.759 sq.yd. Federal and State Aid Project 236C, Route 2, Warren Co., and 1.5 mi. State Project Route 35, Sect. 5, 18 ft., Cass Co.; gravel surfacing 46.132 sq.yd. State Project Route 15, Sect. 80A, Dallas Co., 1.132 mi. State Project Route 12, Sect. 25, 16 ft., Moniteau Co., and 21,848 sq.yd. State Project Route 12, Sect. 29A, Moniteau Co.; grading, etc. 4.35 mi. State Project Route 5, Sect. 72, 26 ft., Laclede Co. B. H. Piepmeier, state highway engr.

Mo., St. Louis—Plans granite curbing where necessary and resurfacing 15 blocks Lindell Blvd., 80 ft., refined asphalt on concrete. $144,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Making plans creating North and South Highway, from 50 to 80 ft., $500,000 exclusive of paving; widening Grand Blvd. from Choteau to Magnolia Aves., from 60 to 100 ft. $200,000, Grand Blvd. from Natural Bridge Rd. to Florissant Ave., $45,000; Olive-Theresa and Pine-Lawton-West Pine cut-offs, $266,000. W. W. Horner, city engr.

Tex., Amarillo—Having plans prepared paving 28 residence streets, bituminous types and brick. $80,000. H. B. Jones, city engr.

Tex., Anderson—Iola Dist., Grimes Co., voted $200,000 bonds road construction. R. M. West, co. judge. Noted Jan. 10.

Tex., Anderson—Grimes Co. voted $80,000 bonds improving roads in Singleton Dist. R. M. West, co. judge.

Tex., Crockett — Houston Co. defeated $250,000 bonds for highway improvements and road construction in Grapeland Dist. C. H. Milburn, co. engr. Noted Jan. 10.

Tex., Dallas — Plans gravel surfacing side streets, permanent paving traffic streets, and storm sewers in Oak Cliff, incl. Oak Cliff Blvd., West 12th and Jefferson Sts. $150,000. E. A. Kingsley, city engr.

Tex., Dallas—Had plans prepared widening and paving Live Oak St. from 50- to 70-ft., $471,710; Harwood St., 45- to 60-ft. $432,000; Lamar St., $175,000; Cockrell St., $160,000. E. A. Woods, city plan engr.

Tex., Dallas—Plans gravel or macadam surfacing, curbing and guttering Broadmoor, Britton, Saner and miscellaneous streets, $25,000. E. A. Kingsley, city engr.

Tex., Dallas—Soon takes bids paving 15 streets, bituminous, concrete or brick. $400,000. E. A. Kingsley, city engr.

Tex., Eagle Pass — Maverick Co. voted $150,000 bonds hard surfacing Eagle Pass Dilley Rd., to connect with Meridian Highway. $100,000 Federal Aid, total $250,000. W. A. Bonnet, co. judge. Noted Nov. 15.

Tex., Eagle Pass — Maverick Co. voted $150,000 bonds grading and bituminous macadam surfacing 25 mi. Eagle Pass-Carrizo Springs Rd. Total cost $425,000. Bonds voted to be supplemented by State and Federal aid.

Tex., El Paso—El Paso Co. having plans prepared grading and surfacing with bituminous or concrete 8 mi. State Highway 1, 18 ft. $368,000. L. A. White, co. engr.

Tex., Hereford—Jan. 26, to vote on $50,000 bonds permanent paving.

Tex., Highland Park (Dallas P. O.)—Had plans prepared and soon takes bids paving Cowper St., bituminous or concrete. $25,000. G. D. Fairtrace, city engr.

Tex., Leakey—Real Co. had plans prepared and opens bids about Feb. 15, crushed rock surfacing 18 mi. highway, 16 ft. $200,000. W. E. Simpson Co., N. B. C. Bldg., San Antonio, engrs.

Tex., Rosebud—Voted bonds paving Ave. C and miscellaneous streets, brick or bituminous concrete. City to pay ⅓ ($18,000), property owners ⅔. Address Mayor or R. A. Sapp, Rosebud. Noted Dec. 13.

Tex., Sulphur Springs—Hopkins Co. having plans prepared grading and gravel surfacing 8 mi. Sulphur Springs-Commerce Rd., 18 ft., also bridge across Trinity River, etc. $86,000. J. B. Rieman, co. engr.

Tex., Vernon — Wilbarger Co. election Feb. 2, to vote on $150,000 bonds highway construction in Precinct 4, (Harrold Precinct). J. B. Nabors, co. engr.

Okla., Blackwell — Plans grading and paving 29 blocks College, Pason, Bridge and McKinley Sts., 26,000 sq.yd. concrete, 11,800 lin.ft. curbing, 8,600 cu.yd. earth and 100 cu.yd. rock excav. $105,000. W. Ritzhaupt, Jr., Blackwell, engr.

Okla., Chickasha — Grady Co. election Mar. 4, to vote on $900,000 bonds for grading and paving 70 mi. highways, 250,000 sq. yd. concrete, 500,000 sq.yd. gravel, 500,000 cu.yd. excav. P. A. Little, Chickasha, engr.

Okla., Comanche—Making surveys grading and paving 7 blocks Main St., 30-60 ft. $60,000. V. V. Long & Co., 1300 Colcord St., Oklahoma City, engrs.

Okla., Kingfisher—Kingfisher Co. having surveys made grading and paving 38 mi. Meridian Highway, 400,000 sq.yd. concrete, 275,000 cu.yd. excav. $500,000. C. R. Steele, co. engr.

Okla., Pauls Valley—Garvin Co. election Feb. 15 (extended date) to vote on $700,000 bond issue for grading and paving 70 mi. county highways. P. A. Little, Chickasha, engr. Noted Jan. 3.

Okla., Sapulpa—Creek Co. voted $700,000 bonds and takes bids about July grading and concrete paving 63 mi. highway. C. K. Howard, Sapulpa, engr. Noted Dec. 13.

Okla., Tulsa — Preparing plans grading, paving, curbing and guttering 19,000 ft. 12th Pl., Lewis, Boston, 8th, Wheeler, 20th, Zunis and St. Louis Sts., brick, concrete, asphaltic concrete, etc. $180,000. C. Schultz, city engr.

Colorado — State Hy. Dept., Denver, adopted budget for 1924, Governor approved same. Estimates of cost are based on average of $36,000 per mile for paving and $13,000 per mile for gravel surfacing. Work as follows: Dist. 2, grading and surfacing $60,000, gravel surfacing $345,416; Dist. 3, asphalt paving $140,000, gravel surfacing $310,314; Dist. 4, paving $30,000, gravel surfacing and paving $219,700, gravel surfacing $105,966; Dist. 5, gravel surfacing $25,000, paving $600,140; Dist. 6, grading $100,000, gravel surfacing $75,000, paving $380,000; Dist. 7, gravel surfacing $123,464, paving $340,000. All foregoing Federal Aid Projects. Above does not include state projects ranging from $1,000 up to $24,000, nor maintenance.

California—State Hy. Dept., Secramento, had plans prepared grading and graveling 6 to 8 mi. 30 to 32 ft. wide, incl. 30,000 cu.yd. excavation to mile, San Mateo Co.; 4½ mi. of 20 ft. concrete paving from Huntington Beach to Newport, Orange Co. R. M. Morton, state highway engr.

Calif., Bakersfield—Kern Co. had plans prepared resurfacing with 3 to 5 in. asphaltic concrete 38 mi. various highways, also 3 mi. new construction, 6 in. asphaltic concrete in 2 courses. To exceed $900,000. W. Farley, Monadnock Bldg., San Francisco, consult. engr. Noted Aug. 23.

Calif., Burlingame—Had plans prepared improving Bway. between El Camino Real and San Mateo Dr., incl. 25,000 sq.ft. grading, 985 tons asphaltic concrete base and 60,000 sq.ft. asphaltic concrete surface, etc. C. A. Torello, city engr.

Calif., Los Angeles—Los Angeles Co. had plans prepared improving portion 1st St., etc., 8,855 sq.ft. concrete walks, 6,095 sq.ft. concrete gutter, 6,402 sq.yd. concrete pavement, etc.

Calif., Porterville — Having plans prepared paving 30 blocks. To exceed $50,000. F. Pease, city engr. Noted July 12.

Calif., San Diego—Plans improving Columbia, Laurel and Maple Sts., 31,719 sq.ft. 4 in. concrete, 72,027 sq.ft. 2 in. asphaltic concrete on 3 in. bituminous base, 199,607 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous base, 12,703 sq.ft. cement concrete sidewalk, etc.; Woolman Ave. and N St., 206,196 sq.ft. 1½ in. Warrenite bitulithic wearing surface on 3 in. bituminous, 7,816 sq.ft. cement concrete sidewalk; A, Ash, Dale, 30th, Fern, B, Granada, 29th and Grape Sts., 144,384 sq.ft. 1½ in. sheet asphalt on 4 in. concrete base, 496,587 sq. ft. 1½ in. sheet asphalt on 2½ in. bituminous base, 21,600 sq.ft. cement concrete sidewalk, 4,564 lin.ft. cement concrete curb, etc. F. A. Rhodes, city engr.

Calif., Oakland—Had plans prepared improving 12th St. incl. 92,176 sq.ft. grading, 4,362 lin.ft. concrete curb without guard, 5,321 sq.ft. concrete gutter, 96,855 sq.ft. 6 in. concrete base with 2 in. warrenite surface pavement, etc. W. W. Harmon, city engr.

Ont., Stratford—Plans 25,000 sq.yd. asphalt, concrete and macadam pavements, 17,000 lin.ft. concrete curbing and guttering, $100,000. A. B. Manson, city engr.

BIDS DESIRED

New York — Feb. 5, by L. Grossman, comr. State Hy. Dept., Albany, constructing and reconstructing highways in Allegany, Dutchess, Madison, Ontario, Orange, Orleans, Oswego and Wyoming Counties; adv. E. N.-R. Jan. 17.

North Carolina—Jan. 31, by State Hy. Comn., Raleigh, hard surfacing, concrete or asphaltic paving, grading, etc. Projects, 106-B, 111, 222, 352, 381, 536, 720, 732-B and 836-B in Bertie, Camden, Duplin, New Hanover, Pender, Guilford, Caldwell, Davie and Henderson Counties respectively; topsoiling, sand clay or gravel surfacing, etc. Projects 472-B, 714, 449, 662, 912-A and 912-B, in Vance Ashe, Lee, Richmond and Cherokee Counties respectively; bridges Projects 404-B and 610, Chatham, Anson and Richmond Counties; adv. E. N.-R. Jan. 17.

Miss., Leland—Feb. 5, by J. T. Mathis, mayor, and Bd. Alderman, 72,000 sq.yd. pavement, etc. M. L. Culley, consult. engr. A. A. McCarn, resident engr.

Louisiana—Jan. 22 (extended date), by State Hy. Dept., Reymond Bldg., Baton Rouge, 5.42 mi. State Project 386 A, St. Landry Parish, Opelousas-Ville Platte Highway. J. M. Fourmy, ch. engr. Noted Dec. 27.

O., Akron—Jan. 28, by W. F. Peters, dir. Pub. Serv., paving 1 mi. or more West Market St., 80 ft., brick, $150,000; ¾ mi. Aqueduct St., 50 ft., brick, $50,000; ¾ mi. Collinwood Ave., 60 ft., asphalt, $75,000-$80,000. E. A. Kemmler, Delaware Bldg., engr. Noted Nov. 22.

Ind., Jasper — Feb. 14, by Dubois Co., paving County Unit Rd. 1, 24,726 sq.yd. concrete. $63,038. H. J. Lemme, Jasper, engr.

Ind., Kosciusko—Feb. 5, by Kosciusko Co., gravel surfacing 2 mi. Curtis Cripe Rd., $29,237; concrete paving 3 mi. Columbus Disher Highway, $72,609, 3 mi. Union Chapel Highway, $6,901, all foregoing 16 ft. wide. Co. Eng. Bureau, engrs.

Ind., Newport—Feb. 4, by Vermillion Co., paving R. F. Staats Rd., 13,950 sq.yd. concrete. $32,944. J. C. Ingram, Newport, engr.

Ind., Scottsburg—Feb. 11, by Scott Co., grading and gravel surfacing 12.410 ft. Frank Gardner Rd., 18 ft. $29,653. E. Kieth, Scottsburg, engr.

Streets and Roads (Continued)

Ind., Shoals — Feb. 4, by Martin Co., macadam paving 26,560 ft. Peter Fuhrman Rd., 18 ft.; 21,625 ft. Fred Hoffman Rd., 18 ft. J. L. Arvin, Shoals, engr.

Ind., Winchester — Feb. 1, by Comrs. Randolph Co., paving H. G. Kemp Rd., 31,140 sq.yd. concrete, $80,640; D. W. Bailey Rd., 22,858 sq.yd. concrete, $78,238. A. B. Purdy, Winchester, engr.

Michigan—Jan. 28, by State Hy. Dept., Lansing, grading and surfacing 4.206 mi. Federal Aid Project 63, Sect. B, Bay Co., 44,603 sq.yd. concrete. G. C. Dillman, ch. engr.

Michigan—Jan. 30, by State Hy. Dept., Lansing, grading and surfacing 2.628 mi. Federal Aid Project 101, Sect. C, Van Buren Co., 31,411 sq.yd. concrete. G. C. Dillman, ch. engr.

Michigan—Jan. 31, by State Hy. Dept., Lansing, grading and surfacing 3.041 mi. State Trunk Line Rd. 13-44, St. Joseph Co., 32,070 sq.yd. concrete. G. C. Dillman, ch. engr.

Wis., Kenosha — Feb. 28, by Bd. Pub. Wks., curbing, guttering and paving 100,000 sq.yd., bids on sheet asphalt, asphaltic concrete, rein.-con. and vitr. brick. R. M. Smith, City Hall, engr.

Minn., Hibbing—Jan. 29, by city, grading and paving with rein.-con. or bitulithic 33 blocks. $175,000. E. Hawley, city engr.

Neb., Auburn—Jan. 29, by City Council, grading and paving with brick on concrete 2,500 ft. in Dist. 8. $25,000. T. C. Daugherty, City Hall, engr.

Tex., Laredo—Jan. 31, by A. N. Winslow, judge Webb Co., widening from 15- to 18-ft. and asphalt macadam surfacing Federal Aid Project 165, State Highway 2, 6.5 mi. Sect. A, $50,195; 8.14 mi. Sect. B, $62,962; 8.75 mi. Sect. C, $73,250; 9.88 mi. Sect. D, $83,118. T. E. Huffman, co. engr. Noted Jan. 10.

Tex., Palo Pinto — Jan. 29, by E. L. Pitts, judge Palo Pinto Co., grading and surfacing with crushed stone base 4.97 mi. State Highway 28, Federal Aid Project 414, 18 ft. $100,250. G. W. Courter, co. engr. Noted Jan. 10.

New Mexico—Feb. 4, by State Hy. Comn., Santa Fe, improving road west of Silver City, Federal Aid Project 85, Grant Co., 4,106 cu.yd. one course crushed stone surfacing; 14.964 mi. Clovis-Texico Rd., Federal Aid Project 25, Curry Co., 25,398 cu.yd. 2 course 6 in. each, loose, caliche surfacing; 2.79 mi. east of Picacho, Federal Aid Project 20-A, Lincoln Co., 5,301 cu.yd. one course gravel surfacing; 4.923 mi. Pajarito-Isleta Rd., Federal Aid Project 102, Bernalillo Co., 2,849 cu.yd. Class 1 excav., 10,929 cu.yd. Class 1 borrow, 242,563 sq.ft. metal reinforcement, 9,147 cu.yd. concrete paving, etc.; 15,171 mi. between Silver City and Cliff, Federal Aid Project 47, Grant Co., 10,084 cu.yd. Class 1 excav., 2,597 cu.yd. Class 1 borrow, 2,533 cu.yd. one course gravel surfacing, etc.; 20.717 mi. Tucumcari-Logan Rd., Federal Aid Project 98, Quay Co., 42,350 cu.yd. Class 1 excav., 25,535 cu.yd. one course gravel surfacing, etc.; 4.545 mi. Cubero-McCarty Rd., Federal Aid Project 115, Valencia Co., 13,180 cu.yd. Class 1 excav., 7,031 cu.yd. 2 course crushed stone surfacing, 116.1 cu.yd. concrete pavement, etc.; 11.581 mi. Valmont-Escondido Rd., Federal Aid Project 49, Otero Co., 16,641 cu.yd. one course gravel or crushed rock surfacing, etc.; 21,082 mi. between Cliff and south line Gila National Forest, Federal Aid Project 84, Grant Co., 10,349 cu.yd. Class 1 and 2 excav. 20,041 cu.yd. one course gravel surfacing, 105,063 ft. wooden superstructure for bridge, etc. J. A. French, state highway engr.

Nevada—Jan. 30, by State Hy. Comn., Carson City, improving road from 5 mi. south of Fallon to Grimes, Churchill Co., 25,800 cu.yd. excav., unclassified, etc. G. W. Borden, state highway engr.

BIDS RECEIVED

N. Y., Brooklyn—F. D. Gallatin, pres. Park Comrs., Municipal Bldg., New York. Jan. 10, grading and paving, etc. Eastern Parkway, sheet asphalt on concrete, from M. J. O'Hara, 1228 Park Ave., New York, $140,415. Noted Jan. 3.

N. Y., Buffalo—Dept. Pub. Wks. Municipal Bldg., Jan. 3, paving with (a) asphalt (b) brick (1) Copeswood Ave. (2) Freeman St. (3) Highgate Ave., repaving (4) Ashland Ave. (5) Rhode Island St., from Rock Asphalt & Constr. Co., Inc., Morgan Bldg., (a1) $13,865 (a2) $16,698 (a3) $36,179 (a5) $13,699; Erie Contg. Co., Morgan Bldg., (b1) $14,990 (b2) $16,889 (b3) $39,000; H. P. Burgard Co., Fillmore Ave., (a4) $74,856. Noted Dec. 27.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 14, curbing and laying sidewalks, etc., in Chauncey St. from Welsh Bros. Contg. Co., 32 Queens St., Astoria, $11,315; paving Chauncey St., from Sicilian Asphalt Paving Co., 41 Park Row, New York, $12,968; grading, curbing, laying sidewalks, etc., on 77th St., from Kennedy & Smith, Inc., 93 Amity St., Flushing, $8,707; sheet asphalt paving 77th St., and grading, curbing, laying sidewalks and sheet asphalt paving 90th Ave., from Cranford Co., 52 9th St., Brooklyn, $24,123 and $11,988 respectively. Noted Jan. 10.

Florida — State Hy. Dept., Tallahassee, 30 ft. grading and 20 ft. sand clay surfacing, 9.45 mi. between Aucilla Rd. and Monticello, Jefferson Co., from W. J. Bryson, Jacksonville, $84,699.

Kentucky—State Hy. Dept., Frankfort, paving with waterbound macadam 5.809 mi. Williamsburg-Jellico Rd., 16 ft., State Project 35, Sect. C, Whitley Co., from E. A. Chilton, London, $157,545, 7.623 mi. Owingsville-Carlisle Rd., 14 ft., State Project 61, Sect. A, Bath Co., from Moynahan & Turner, Lexington, $103,595; surface treating above roads, from Southern Oil and Tar Co., Clay and Fulton Sts., Louisville, $8,251 and $9,502 respectively; paving with waterbound macadam 15.133 mi. Owenton-Georgetown Rd., 14 to 32 ft., State Project 49, Sect. A, Scott Co., from Georgetown Constr. Co., Georgetown, $293,205, surface treating from Atlantic Asphalt Refining Co., Atlanta, Ga., $18,044; with rein.-con. 3.747 mi. Louisville-Bardstown Rd., 20 ft., State Project 3, Sect. B, Jefferson Co., from Louis Des Cognets & Co., 413 East Main St., Lexington, $191,209; grading 3.167 mi. Harlan-Pineville Rd., 24 and 28 ft., State Project 6, Sect. C, Harlan Co., from J. S. Lusk & Co., Barboursville, $33,603. Noted Dec. 13.

Tex., Dallas — Paving Young St. from Akard to Houston Sts. and from Harwood to Akard Sts., Jefferson St. from Polk to McDonough Sts., from Smith Bros., Sumpter Bldg., rock asphalt $1.15 per sq. yd.; Fuller Constr. Co., Slaughter Bldg., willite $1.34; Central Bitulithic Co., Praetorian Bldg., bitulithic $2. Engrs. est. $45,000.

Tex., Decatur—Wise Co., hauling and placing 33,125 cu.yd. gravel surfacing on State Highway 2, Federal Aid Project 14-B, from Alexander & Speer, Alvord, $21,607. Gravel to be furnished by county, $26,500. Noted Dec. 13. Engrs. est. $50,000.

Tex., Sierra Blanca—Hudspeth Co. grading and gravel surfacing 9.03 mi. State Highway 1, Federal Aid Project 399, 258 cu.yd. concrete, 23,091 cu.yd. roadway, 16,118 cu.yd. borrow excav., 21,040 lb. reinforcing steel, 2,954 cu.yd. gravel, from Valient & Toomey, F & M Bank Bldg., Ft. Worth, $30,532. Engrs. est. $35,000.

Wash., Seattle—Bd. Pub. Wks., Jan. 4, grading and concrete walks on 26th Ave. N. E., et al., from Paduano & Chrisman, 1546 12th St. S., 6,700 lin.ft. concrete sidewalk $1.35, 18,500 cu.yd earth excav. $0.42, total $30,598.

Wash., Seattle—Bd. Pub. Wks., Jan. 11, paving, curbing, etc. Jackson St. et al., from F. McClellan, Lyon Bldg., $504,457 for brick and $457,038 for concrete. Noted Dec. 27.

California—State Highway Comn., Sacramento, improving 11.5 mi. Beltane-Schellville Rd., Federal Aid Project 123, Sonoma Co., from Galbraith & Janes, San Mateo, 45,000 cu.yd. roading embankment $1.08, 76,800 sta. yd. overhaul $0.02, 22,524 lin.ft. subgrade, preparing and shaping $0.24, 8,975 cu.yd. Class A Portland cement concrete pavement $13.35, 1,425 cu.yd. Class A Portland cement concrete culverts and monuments $24.50, 13,120 cu.yd. crushed gravel or broken stone $3.48, etc. Total $274,761. Noted Dec. 20.

California—State Hy. Comn., Sacramento, improving 13.1 mi. Thoute Ave. to west city limits of Los Angeles, Los Angeles Co., 52,000 cu.yd. unclassified excav., 21,080 cu. yd. Class A concrete pavement, 385 cu.yd. Class A concrete in structures, 37,970 sq.yd. reinforcing steel in pavement, etc., from G. H. Oswald, 366 East 58th St., Los Angeles, $388,785. Noted Dec. 27.

California—State Hy. Comn., Sacramento, 1.9 mi. concrete paving in vicinity of Galt, from Kaiser Paving Co., Bank of Savings Bldg., Oakland, $53,354.

Calif., Auburn — Improving Sacramento, High and Nevada Sts., etc., incl. 276,000 sq. ft. grading and 276,000 sq.ft. Willite paving from J. A. Costello, Jr., 1083 Shotwell St., San Francisco $0.05 sq.ft. and $0.214 sq. ft. respectively. Noted Jan. 3.

Calif., Fresno — Improving Moroa and Vassar Aves., 122,123 sq.ft. grading, 88,582 sq.ft. paving, 2,722 lin.ft. concrete curb, 7,985 sq.ft. concrete gutter, 12,070 sq.ft. walks, culverts, twenty manholes, etc., from California Road and Street Improvement Co., Bank of Italy Bldg., Fresno, $37,129.

Calif., Los Angeles—Los Angeles Co., improving Western Ave. between Clarke and Rosecrans Sts., incl. (1) 660 cu.yd. excavation (2) 3,270 ton asphalt concrete surface (3) 26,632 sq.ft. concrete shoulders (4) 26,632 ft. of 3 in. concrete sand cushion, from G. H. Oswald, 366 East 58th St. (1) $0.80 (2) $6.20 (3) $0.36 (4) $0.03; Griffith Co., Railway Bldg. (1) $2 (2) $6.50 (3) $0.32 (4) $0.02; G. R. Curtis, 2440 East 26th St. (1) $2 (2) $6.50 (3) $0.35 (4) $0.02. Noted Dec. 20.

Calif., Los Angeles—Los Angeles Co., improving Western Ave., between Clarke and Rosecrans Sts., incl. (1) 660 cu.yd. excavation, (2) 3,270 ton asphalt concrete surface, (3) 26,632 sq.ft. concrete shoulders, (4) 26,632 ft. of 3 in. concrete sand cushion, from G. H. Oswald, 366 East 58th St. (1) $0.80, (2) $6.20, (3) $0.36, (4) $0.03. Noted Dec. 20.

Calif., Oakland — Improving portions Lynde and Bartlett Sts.; incl. (1) 58,500 ft. grading (2) 1,958 ft. concrete curb (3) 3,895 ft. concrete gutter (4) 29,325 ft. oil macadam pavement (5) 11,130 ft. cement walks, from Hutchinson Co., Hutchinson Bldg. (1) $0.03 (2) $0.70 (3) $0.26 (4) $0.11 (5) $0.16; Bates & Borland, Bank of Savings Bldg., (1) $0.035 (2) $0.70 (3) $0.25 (4) $0.095 (5) $0.16; Heafy-Moore-McNair, 2030 High St. (1) $0.038 (2) $0.70 (3) $0.24 (4) $0.11 (5) $0.17. Noted Jan. 3.

Calif., Oakland—Alameda Co., concrete paving in towns of Pleasanton and Livermore, from Heafey, Moore-McNair, 2030 High St., Oakland, $32,541.

Calif., San Diego—Common Council, improving Dickinson and Front Sts., incl. (1) 113,075 sq.ft. paving with 2½ in. bituminous base and 1½ in. asphalt concrete top (2) 2,249 sq.ft. cement concrete sidewalk (3) 2,952 lin.ft. cement concrete curb, from G. R. Daly, 4430 Boundary St. (1) $0.177 (2) $0.23 (3) $0.67; California Constr. Co., Union Bldg., (1) $0.183 (2) $0.25 (3) $0.72. Noted Nov. 15.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, Boro pres., Boro Hall, paving Carroll St., permanent asphalt on 6 in. concrete, to Borough Asphalt Paving Co., 1301 Metropolitan Ave., $12,453; curbing where necessary and paving Ave. D, 7 in. preliminary concrete, to E. F. Monahan, 1921 Morris Ave., New York, $64,124; grading, curbing, flagging where necessary and paving Ocean View Ave., second-hand granite on sand, to F. Mandatto, 120 32nd St., $26,227. Noted Dec. 20.

Fla., Miami—F. W. Wharton, city mgr., 11,598 sq.yd. concrete sidewalks, Contr. 25, to C. H. Cook & Son, Miami, $1.60 sq.yd. Noted Jan. 10.

Alabama—State Hy. Dept., Montgomery, grading and cherting 3.82 mi. Birmingham-Decatur Rd., 20 ft., Jefferson and Blount Counties, to J. Gwin, Hamilton Station, Birmingham, $110,477. Noted Dec. 13.

Alabama—State Hy. Dept., Montgomery, grading and graveling 16 mi. Dixie Overland Highway, Dallas and Perry Counties, to W. C. McCoy, LaFayette, $110,781.

Miss., Collins—Covington Co. improving 2.708 mi. Federal Aid Project 165, to M. Williams, Magee, 26,633 cu.yd. common excav. $0.28, 4,643 cu.yd. borrow $0.26, 83.47 cu.yd. concrete $34, 6,356 cu.yd. gravel 1 mi. haul $0.75, 23,024 unit gravel ½ mi. overhaul $0.15, bridge included 234 cu.yd. concrete $34, etc. Engrs. est. $33,290. Noted Nov. 29.

Miss., Jackson—Paving with vitrolithic 3 suburban roads, to Owens & Gaddis, $110,916.

Louisiana — State Hy. Comn., Baton Rouge, grading and hard surfacing 12.62 mi. Delhi-Winnsboro Highway, to L. M. Wimberly, Arcadia, $48,553.

Indiana—State Hy. Comn., Indianapolis, paving Federal Aid Rd. 67, Sect. A, Lagrange Co., 81,017 sq.yd. concrete, to R. Daoust, Defiance, O., $181,281; widening and grading 8.176 mi. Federal Aid Rd. 68, Sect. G, Parke Co., 149,267 cu.yd. excav., to Ellis & Scamahorn, Rockport, $93,178; concrete paving 5.743 mi. Federal Aid Rd. 74, Sect. B, Boone Co., 76,755 sq.yd. concrete, and 8.639 mi. Sect C, Clinton and Tippecanoe Counties, 83,039 sq.yd. concrete, to J. M. Snyder, Frankfort. $112,955 and $158,333 respectively. Noted Jan. 10.

Ind., Monticello—White Co., improving 2 mi. Augustus U. Lex Rd., Princeton Twp., to S. Spencer, Wolcott, $37,490. Engrs. est. $40,000. Noted Dec. 20.

Ia., Laporte City—Paving, curbing and guttering 23 blocks, 19,716 sq.yd. 8 in. rein.-con., 14,568 lin.ft. curbing and guttering, to P. P. Smith, 1600 Washington St., Cedar Rapids, $61,379.

Streets and Roads (Continued)

Ia., Waterloo—Black Hawk Co., grading and gravel surfacing 11.14 mi. Primary Rd. 379, grading to T. Ryan & Sons, Missouri Valley, 72,557 cu.yd. template excav. $0.25 per yd., 1,815 cu.yd. farm entrance excav. $0.35; gravel surfacing to L. Moe, Belmond, 17,392 yd. gravel $0.39; drain to J. Christensen, Hudson, 71,643 ft. tile drain, and 5 type A and 3 type B intakes, $8,245. Noted Dec. 20.

Minn., Duluth—St. Louis Co., grading 4 mi. Trinity Ave. from 24th Ave. W., to Miller Trunk Highway, to D. H. Clough Co., 405 Palladio Bldg., Duluth, $57,870.

Tex., Corpus Christi — Nueces Co., improving 10.1 mi. State Highway 12, 16 ft., to Smith Bros., Inc., Sumpter Bldg., Dallas, $288,062. Noted Dec. 13.

Tex., Halletsville—Lavaca Co. grading, etc. 14.23 mi. State Highway 3-B, Federal Aid Project 373, 93,154 cu.yd. roadway and 40,362 cu.yd. borrow excav., to Fague Bros., Waelder, $30,467. Engrs. est. $33,514 incl. 10% for engineering and contingences. Noted Dec. 6.

Tex., Hemphill — Sabine Co., grading, gravel surfacing and bridging 14.69 mi. State Highway 8, Federal Aid Project 327-B, 381 cu.yd. concrete, 91,321 cu.yd. roadway and 50,576 cu.yd. borrow excav., etc., to Geroge & Kerr, Lufkin, $80,825; 23,005 cu.yd. gravel to be furnished by county. Engrs. est. $94,793. Noted Jan. 10.

Okla., Oklahoma City—Grading and paving 7 blocks West 3rd St., 6,600 sq.yd. asphalt, 3,800 lin.ft. curbing, 2,650 cu.yd. excav., to Western Paving Co., Tradesmens Bldg., $29,058. Noted Dec. 6.

Utah, Salt Lake City — Salt Lake Co., paving 4 mi. Bingham Highway-Atwells Crossing, 18 ft., 6-in. concrete, to P. J. Moran, Inc., 850 South 2nd St., W., $105,000.

Ariz., Tucson—Improving Speedway and Campbell Ave., 87,150 sq.yd. subgrading, 55,920 sq.yd. paving, etc., to Borderland Constr. Co., Tucson, $158,750. Noted Dec. 27.

Wash., Seattle — King Co., grading and graveling 1.2 mi. 10th Ave. N. E. extension, 35,000 cu.yd. gravel, to Dump Trucking Corp., 1115 Valley St., $25,648. Noted Dec. 6.

Calif., Glendale—City, improving Sycamore Canyon Rd., incl. 758,000 sq.ft. grade, 16,750 sq.ft. B curb, 32,480 sq.ft. concrete gutter, 476,000 sq.ft. asphalt concrete base with 1½ in. National surface, etc., to Thompson & Heuser, Loew State Bldg., Los Angeles, $194,125. Noted Jan. 10.

Calif., Los Angeles—Improving Alvarado St., 28,574 sq.ft. asphalt concrete pavement, 447,856 sq.ft. of 7 in. and 18,559 ft. of 6 in. concrete pavement, curbs, gutters, etc., to W. Liddington, 420 East 60th St., $154,783; Vine St. between Melrose and Yucca Sts., incl. grading, 1,800 sq.ft. asphalt pavement, 306,133 sq.ft. concrete pavement, 12,086 sq.ft. bituminous base pavement, 10,431 ft. curb, 54,242 sq. ft. walks, storm drain complete, iron pipe lighting conduit, to W. F. Peck, Hollywood Security Bldg., $316,940. Noted Jan. 10 and 17, respectively.

Calif., San Diego—Common Council, improving Fort Stockton Dr., Falcon and Lewis Sts., 113,394 sq.ft. paving with 1½ in. asphaltic concrete on 2½ in. bituminous base and 3,308 sq.ft. cement concrete sidewalk; also improving Sutter St., 87,777 sq.ft. paving with 1½ in. asphaltic concrete on 2½ in. bituminous base and 106 sq.ft. cement concrete sidewalk, to G. R. Daley, 4430 Boundary St., $22,453 and $15,677 respectively. Noted Jan. 17.

Industrial Works

PROPOSED WORK

Mass., Boston—Warehouse—C. E. Osgood Co., Washington and Harvard Sts., plans 7 story and basement, brick and concrete, Harvard St. $175,000. Engineer and architect not announced.

Conn., Hartford—Repair Shop and Warehouse—Water Dept., 1026 Main St., plans 3 story, 150 x 200 ft., brick and steel, plain foundation, Homestead Ave. $150,000. Engineer and architect not selected.

Conn., New London — Distributing Station—Dixie Oil Co., 154 Pearl St., Hartford, plans distributing station, probably 2 buildings and several tanks, here. $50,000. Architect not selected.

Conn., Winsted — Factory — Strand & Sweet Mfg. Co., Meadow St., plans 2 story addition, brick and steel, plain foundation, Meadow St. $100,000. Private plans.

N. J., Bridgeton—Plant—Illinois Glass Co., Alton, Ill., plans rebuilding 2 story plant, here, recently destroyed by fire. $150,000.

N. J., Camden—Factor and Warehouse—J. Campbell Co., 32 North Front St., plans factory and warehouse, company authorized by City Comn., to bulkhead along Delaware River from Cooper to Linden Sts. To exceed $1,000,000.

Pa., Grove City — Factory — Patterson Gear Shift Co., Monaca, plans factory. $65,000. Architect not selected.

Pa., Shadeland—Plant—J. A. Bradley Co., engrs., Jones Law Bldg., Pittsburgh, preparing plans steel plant, here. $4,000,000. Owner's name withheld.

Md., Baltimore—Consolidated Gas Electric Light & Power Co., Lexington Bldg., plans to expend $10,000,000 during 1924. Work includes steam generating station at Gould St., 60,000 hp.; substation on Walbrook Ave.; addition to Monument St. station; creosoting plant and central pole lot; boiler house, service station, offices, etc.; 16 additional transmission cables, 800 mi. wire and 675 distribution transformers with total capacity of 11,000 kw.; 36.5 mi. gas mains, 5.5 mi. of which will be 20-in. pipe; relief holder at Spring Gardens plant also 2 m.g. steel oil tank; coal handling equipment will be extended from pier head line to new generator house. H. A. Wagner, pres.

W. Va., Martinsburg—Factory—Eastern Sewer Pipe & Brick Co., Dean Bldg., plans factory. $150,000.

Va., Marion—Plant—W. H. Allen, Elizabethtown, plans new brick plant, here. $50,000.

S. C., Charlotte—Supply House—Charlotte Supply Co., 20-22 East 4th St., having plans prepared by Lockwood & Greene, Piedmont Bldg., 4 story and basement, brick and steel, 1st and Mint Sts. $150,000.

N. C., Greensboro—Plant—Southern Milk Products Co. plans 2 story, 65 x 120 ft. plant. $150,000. E. S. Davies and associates, interested.

Fla., Fort Meyers—Gas Plant, etc.—City voted $130,000 bonds for gas plant and mains. Noted Dec. 20.

Fla., Orlando—Plant—See "Waterworks."

Fla., Sanford — Factory — Florida McCracken Concrete Pipe Co. plans factory, here. $70,000. K. B. McCracken, local mgr. R. A. McConville, Sanford, engr.

La., New Orleans — Factory — Great Southern Lumber Co., Bogalusa, plans factory, 75 tons chipboard daily, here, $1,000,000. W. H. Sullivan, pres. J. L. Carey, 208 North Laramis St., Chicago, Ill., archt.

La., New Iberia—Voted $250,000 bonds for electric plant and road work.

Tenn., Chattanooga—Factory—Turnbull Cone Mchy. Co., Fort and 14th St., plans 4 story, 50 x 120 ft., brick, 11th St. $40,000.

Ky., Covington—Warehouse—Dohermann & Co., 3rd and Main Sts., plans 1 story brick warehouse, to replace one destroyed by fire. $40,000.

Ky., Henderson—Ice Plant—Home Ice Co. plans to rebuild ice plant recently destroyed by fire. $40,000.

O., Cleveland—Garage—M. Glauber of Glauber Brass Co., 7706 Platt Ave., plans altering 2 story, brick, steel and concrete, Ontario St. $75,000. Engineer and architect not selected.

O., Lakewood (Cleveland P. O.)—Garage, etc.—Marked Motor Corp., 13316 Madison Ave., plans 2 story, garage, service station and sales-room, brick, concrete and steel, Madison Ave. $45,000. Engineer and architect not announced.

O., Toledo — Industrial — Libbey-Owens Sheet Glass Co., Nicholas Bldg., having revised plans prepared by Devore Co., archts. and engrs., Nicholas Bldg., 1 story, 187 x 1002 ft. polishing and grinding plant, railroad siding and drainage work, East Bway. $1,000,000. Former bids rejected. Noted Dec. 20.

Ind., Bloomfield—Factory—Faucett-Vanmeter Chair Co. plans to rebuild factory, brick, recently destroyed by fire. $60,000. Engineer and architect not selected.

Ind., Indianapolis—Warehouse—C. P. Lesh Paper Co., Kentucky Ave., plans 6 story and basement, brick and steel, North Senate Ave. $200,000. Engineer and architect not selected.

Ind., New Paris—Factory—H. Roeber, archt., South Bend, preparing plans factory, here. $50,000. Owners name withheld.

Ind., Peru—Repair Shops—See "Railways" under Indiana.

Mich., Detroit — Factory — H. Flint Ink Co., 1430 Sherman St., having plans prepared by Weston & Ellington, 1507 Stroh Bldg., 2 story and basement, 100 x 250 ft. rein.-con. and brick, plain foundation, Scotten Ave. $100,000.

Mich., Monroe—Factory—Monroe Steel Castings Co. plans to rebuild portion of factory recently destroyed by fire. $50,000.

Wis., Crandon—Northern Woodenware Co., c/o J. H. Fiebing, pres., plans to rebuild 2 story, brick and timber factory, plain foundation. $40,000. Engineer and architect not selected.

Wis., Fond du Lac—Garage—Anderson Motor Co., 36 West 2nd St., plans 2 story, 45 x 120 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Engineer and architect not selected.

Wis., Madison—Garage—J. Peterson, 102 South Orchard St., plans 2 story, 60 x 200 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, Fairchild St. $70,000. Engineer and architect not selected

Wis., Menomonie—Garage—E. V. Johnson soon takes bids 1 story, 60 x 176 ft., brick and concrete garage, plain foundation, Main St. $50,000. Private plans.

Wis., Milwaukee — Repair Plant — City voted $250,000 bonds for central repair plant. C. E. Malig, city engr.

Wis., Milwaukee — Service — Bartles-Maguire Oil Co., 539 Bway., having preliminary plans prepared by Buemming & Guth, 521 Jackson St., 1 story and basement, 75 x 102 ft., brick and concrete service station, plain foundation, Sycamore St. $100,000.

Wis., Polar—Factory—E. Kramer plans to rebuild 1 story, 40 x 60 ft., brick or concrete factory, plain foundation, recently destroyed by fire. $40,000. Engineer and architect not selected.

Wis., Wausau—Electric Power Plants—Wisconsin Valley Electric Co., 206 3rd St., plans 3 hydro electric power plants along Wisconsin River, near here, at Lower Grand Father Falls, Trappe Rapids and Bill Cross Rapids, brick and concrete, plain foundations, also rein.-con. dams. Engineer and architect not selected.

Ia., Ft. Dodge—Factory—Johnson Clayworks, Inc., plans 2 story, 50 x 150 ft., brick and stucco. $48,000. D. G. Johnson, pres. Architect not announced.

Ia., Grimes—Factory—Grimes Canning Co. plans 2 story and basement, 64 x 100 ft., brick. $100,000. W. J. Stewart, pres. Architect not announced.

Minn., Willmar—See "Waterworks."

Mo., Kansas City—Factory—Iten Biscuit Co., 1202 Capitol Ave., Omaha, Neb., having plans prepared 2 story and basement, 131 x 175 ft., 25th and Madison Sts., here. $125,000. Private plans.

Mo., Thayer—Ice Plant—See "Waterworks."

Tex., Alice—Cotton Compress—J. I. Cain, Corpus Christi, plans concrete, cotton compress, here. $50,000.

Tex., Colorado—Cotton Compress—Continental Cotton Oil Co. of Colorado, c/o J. Guitar, Abilene, plans additions to cotton compress, here. $50,000.

Washington—Power Plant—Puget Sound Power & Light Co., Stuart Bldg., Seattle, plans to expend $5,000,000 in West Washington during 1924. Work includes addition to White River Power Plant, to produce 23,000 hp., $1,000,000; new transmission and distribution lines and substation improvements, $2,500,000; permanent miscellaneous improvements, $1,000,000. Will also start preliminary work on Baker River Project which will ultimately cost several million dollars.

Ore., Portland—Mill—R. H. Mills, pres. Portland Pulp & Paper Co., 815 Bway. Bldg., takes bids in March, 10 story, rein.-con. and steel, along Willamette River. $1,200,000. R. R. Clark, Ry. Exch. Bldg., archt. and engr. Noted Dec. 6.

Calif., Fullerton—Factory—Balboa Motor Corp. having plans prepared by Hamm & Grant, Ferguson Bldg., Los Angeles, 80 x 100 ft. office building, 168 x 280 ft. main factory, 84 x 150 ft. paint shop and 48 x 156 ft. repair shop.

Calif., Los Angeles—Factory—Wood Mfg. Co., 1617 McGarry St., having plans prepared by W. C. Pennell, Merritt Bldg., 1 story, 100 x 225 ft., wood and corrugated iron.

Calif., Oakland—Factory—Pacific Furniture Co., foot of Madison St., having plans prepared by E. W. Cannon, Central Bank Bldg., 2 story, rein.-con. and frame, 3rd and Oak Sts. $40,000.

Industrial Works (Continued)

Calif., Oakland — Planing Mill — E. K. Wood Lumber Co., 1 Drumm St., San Francisco plans planing mill Rose St., here. Will employ about 250 men.

Calif., Pomona—Laundries—Consolidated Laundries, Inc., 600 Merritt Bldg., Los Angeles, plans laundry, here and at Azusa. $70,000.

Que., Bryson — Power House — See "Dams."

Que., Montreal—Plant—Algonquin Power Co., Montreal, plans hydro-electric plant and water power development on River du Loup, $2,500,000. J. M. Robertson Ltd., St. Nicholas St., engrs.

Ont., Hamilton — Plant — Mercury Mills plans addition to plant. $50,000.

BIDS DESIRED

N. Y., Cortland—Power House—Jan. 24, by L. T. Klauder, engr., 1574 Pennsylvania Bldg., Phila., 54 x 62 ft. addition, here, for Cortland Co. Traction Co., 127 Main St. $50,000.

Pa., Phila.—Abbatoir—Jan. 19, by F. A. Stoutenburgh, archt., 452 North American Bldg., 2 story, 63 x 80 ft. and 1 story, 33 x 119 ft. brick and steel, plain foundation, Front and Venango Sts., for Duffy Bros. Inc., 3255 North Front St. $75,000.

Pa., Phila.—Factory—Jan. 14 (extended date) by P. S. Tyre, archt., 15th and Arch Sts., 2 story and basement, 30 x 60 ft. and 1 story and basement, 60 x 90 ft. rein.-con., brick and steel, plain foundation, 5th and Hamilton Sts., for Crescent Ink & Color Co., 408 Vine St., $45,000. Noted Dec. 13.

Pa., Phila.—Factory—Jan. 21, by Corrugated Container Co., Trenton and Venango Sts., 2 story and basement, 80 x 93 ft., brick and steel, plain foundation, Venango and Sepviva Sts. Private plans.

Tenn., Memphis — Assembly Plant — A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., taking bids and opens same about Jan. 22, 1 and 2 story, 301 x 800 ft., rein.-con., brick and steel, Riverside Blvd. and Parkway West, here, for Ford Motor Co., Highland Park, Mich. Noted Jan. 17.

Ky., Louisville — Assembly Plant — A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., taking bids 1 story, 301 x 1,000 ft., brick and steel, Western Parkway, here, for Ford Motor Co., Highland Park, Detroit, Mich. Noted Jan. 10.

O., Toledo—Bakery—Jan. 21, by Mills, Rhines, Bellman & Nordhoff, archts., Ohio Bldg., 3 story and basement, 133 x 265 ft., rein.-con. and brick, plain foundation, Summit St., for Holland Bred Co. $200,000. Noted Jan. 10.

Ind., Ft. Wayne—Garage—Becker Motor Co. taking bids 2 story and basement, 108 x 109 ft., rein.-con. and brick, West Jefferson St. $90,000. Pohlmeyer & Pohlmeyer, Central Bldg., archts.

Ind., Princeton — Plant — Jan. 28, by Southern Ry., Cincinnati, O., 1 story, 80 x 200 ft., brick and steel, here. $125,000. A. Tyrell, c/o Owner, 7th and Sycamore Sts., St. Louis, Mo., div. engr.

Wis., Madison—Warehouse—E. Tough, archt., Washington Bldg., taking bids 2 story, 64 x 120 ft., storage warehouse, brick, rein.-con. and steel, plain foundation, for Heilpun & Co., c/o J. Heilpun, pres., West Mifflin St. $75,000.

Calif., Los Angeles—Warehouse—Western Wholesale Drug Co., 200 South Los Angeles St., receiving bids 6 story and basement, rein.-con. $135,000.

Calif., San Francisco — Warehouse and Loft—Baumann & Jose, archts., 251 Kearny St., receiving bids 3 story and basement, rein.-con., Mission St. near 8th St., for F. J. Klenck, c/o architects. $60,000.

BIDS RECEIVED

Ga., Atlanta — Warehouse, etc. — J. A. Roeblings Sons Co., 65½ Walton St., 1 story, 120 x 200 ft., brick and steel warehouse and office, plain foundation, Avon Ave., from C. F. Nonnemaker, 307-8 Bona Allen Bldg. Est. cost $55,000.

Calif., Emeryville — Factory — Westinghouse Electric Co., 62nd and Powell Sts., 3 story, rein.-con., from Dinwiddie Constr. Co., Crocker Bldg., San Francisco. To exceed $150,000. Noted Jan. 3.

CONTRACTS AWARDED

Conn., Bridgeport—Service Station—A. L. Clark Co., 1710 Main St. 1 and 2 story 100 x 298 ft. brick concrete and stone, Fairfield Ave., to Hewlett Co., 884 Main St. Archts. est. $150,000.

Conn., Torrington—Factory—Progressive Mfg. Co., 52 Norwood St., 2 story, 165 x 180 ft., brick and steel, plain foundation, to Torrington Building Co., 182 Church St. Archts. est. $40,000.

N. Y., New York—Garage—A. B. Fleck, c/o Connova & Viviani, archts. and engrs., 145 West 41st St., 2 story, 100 x 300 ft., rein-con., brick and steel, plain foundation, 91st St. and 1st Ave., to J. Viviani & Son, 145 West 41st St. Archts. est. $500,000.

N. Y., New York — Garage — Keystone Properties Corp., 27 Cedar St., will build 5 story, 100 x 100 ft., rein.-con., brick and steel, plain foundation, 107-115 West 89th St., by day labor. $200,000. B. S. King, 18 East 41st St., archt. and engr.

Pa., Phila.—Boiler, Power and Engine House—L. Burk, 3rd and Thompson Sts., 3 story, 49 x 138 ft., rein.-con. and steel, plain foundation, to J. N. Gill Constr. Co., City Centre Bldg.

Pa., Phila.—Printing Plant, etc.—Public Ledger Co., 6th and Chestnut Sts., printing plant and offices, Chestnut, 6th and Sansom Sts., to Doyle & Co., 1519 Sansom St., $2,-500,000. Noted Jan. 3.

Pa., Pittsburgh—Factory—Phillips Mine & Mill Supply Co., Mary St., plans to alter and build 1 story, 47 x 122 ft. addition to factory, Mary St., to Bollinger Andrews Eng. Co., Empire Bldg. Archts. est. $40,000.

Md., Baltimore — Warehouse — Emerson Drug Co., c/o W. H. Parker and P. Heuisler, Emerson Hotel, 9 story, 28 x 103 ft. addition, concrete and brick, plain foundation, 9 South Eutaw St., to Consolidated Eng. Co., Calvert Bldg., $200,000.

N. C., Charlotte—Plant—Ford Motor Co., Highland Park, Detroit, Mich., plant, here, to McDevitt-Fleming Co., 1st Natl. Bank Bldg., Chattanooga, Tenn., $1,000,000.

Ala., Birmingham — Warehouse — Standard Sanitary & Mfg. Co., Troy, N. Y., 4 story, 60 x 170 ft., concrete and steel, 22nd St. and Ave. E, to Southern Ferro-Concrete Constr. Co., American Trust Bldg., $150,000.

O., Bridgeport—Machine Shop—Dillon Bros. Machine Co., 1 story, 80 x 120 ft., brick, to Austin Co., 16112 Euclid Ave. Archts. est. $50,000. Noted Mar. 8.

O., Cleveland—Factory—General Power Constr. Co., 1603 East 27th St., 1 story, 60 x 87 ft., brick, 1603 East 27th St., to W. F. Hyde Co., 1008 Scovill Ave. Archts. est. $40,000. Noted Jan. 10.

O., Cleveland—Plant—Dercum & Beer, archts., 4500 Euclid Ave., 3 story and basement, 90 x 116 ft., brick and rein.-con., East 12th St., to Craig-Curtis Co., 4614 Prospect Ave., for German Consolidated Newspaper Co., 1570 West 3rd St. Archts. est. $150,-000. Noted Jan. 3.

O., Columbus—Laundry—Amer. Laundry Co., 557 North 4th St., 2 story, 72 x 100 ft., brick and concrete, North 4th St., to F & Y Constr. Co., 141 East Broad St., $65,000.

Ind., Indianapolis—Factory—Real Silk Hosiery Mills, 624 North Noble St., 2 story and basement, 50 x 190 ft., rein.-con., steel and brick, North Noble St., to Ostrom Realty Co., Peoples Bank Bldg. Archts. est. $75,000.

Mich., Iron Mountain—Plant—Ford Motor Co., Highland Park (Detroit P. O.) 2 story, 90 x 310 ft. brick and steel, plain foundation, to Worden-Allen Co., 208 South LaSalle Blvd., Chicago. Noted Dec. 20.

Ill., Chicago—Factory—J. J. Harrington, c/o W. G. Uffendell, archt., 39 South State St., 3 story, fireproof, Center and Racine Sts., to Austin Co., 208 South La Salle St. Archts. est. $150,000.

Ill., Elgin—Storage Plant—Texas Co., 19 Battery Pl., New York City, 1 story, 118 x 334 ft., brick and rein.-con., to McKelvey Constr. Co., Detroit, Mich. Archts. est. $50,000. Noted Dec. 6.

Wis., Manitowoc — Factory — J. Weiers, 17th and Washington Sts., 1 story, 42 x 90 ft., brick and timber, plain foundation, Rapids Rd., to E. R. Herman, 1402 Hamilton St. $40,000. Private plans.

Wis., Manitowoc — Factory — J. Weires, 17th and Washington Sts., 1 story, 50 x 120 ft., brick and rein.-con. factory, plain foundation, to E. R. Herman, 1402 Hamilton St.

Wis., Manitowoc — Garage — Streich Oil Co., Rapids Rd., 1 story, 42 x 100 ft., brick and concrete, plain foundation, to E. R. Herman, 1402 Hamilton St. Engrs. est. $40,000.

Wis., Medford—Boiler House—Medford Canning Co., c/o Oconomowoc Canning Co., 1 story, 40 x 50 ft., brick and concrete, to Consolidated & Mfg. Co., Withee. Engrs. est. $40,000.

Wis., Milwaukee—Dye Works—Badger Dye Wks., 887 3rd St., 2 story and basement, 40 x 60 ft., brick and concrete, plain foundation, 3rd St., to H. Danischefsky, 1484 Humboldt Ave. Archts. est. $40,000.

Wis., Wausau — Factory — Wausau Abrasives Co., 1007 South 2nd Ave., 1 story, 40 x 100 ft., brick and steel addition, plain foundation, to W. Anderes, 313 3rd St. $40,000.

Wis., Wauwatosa — Plant — Milwaukee Structural Steel Co., 19th St. and St. Paul Ave., Milwaukee, 1 story, 120 x 300 ft., brick and steel plant, plain foundation, Watertown Rd., here, to Meredith Bros., 1043 Kinnickinnic Ave., Milwaukee. $75,000.

Mo., St. Louis—Garage and Service Station—L. B. Pfrimmer, 1645 South Grand Blvd., 1 story, 75 x 140 ft., rein.-con., brick and stone, Grand Blvd., to C. W. Pfrimmer, 1645 South Grand Blvd. Archts. est. $45,000.

Mo., St. Louis—Garage—A. A. Wagner, 901 Century Bldg., 2 story and basement, 103 x 281 ft., rein.-con. and brick, Delmar Blvd., by day labor. $150,000. J. T. Craven, Century Bldg., archt.

Tex., Galveston — Warehouse — Black Hardware Co., 23rd and A Sts., 1 story, 75 x 200 ft., concrete, tile and steel addition, to W. A. Kelso and Porter & Son, Galveston, $45,000.

Tex., Houston—Warehouse, etc.—H. C. House, c/o Jones & Tabor, archts., Union Natl. Bank Bldg., 6 story and basement, 100 x 100 ft., warehouse and office, brick and concrete, Milam and Capitol Sts., to J. B. Townsend, West Bldg., $130,000.

Calif., Auburn—Garage—Central California Corp., 1 story, brick or concrete, High St., to W. B. Lardner, Jr., Auburn, $42,000.

Calif., Culver City—Laundry—Paramount Laundry Co., c/o Norenberg & Johnson, archts., Railway Bldg., Los Angeles, 1 story and mezzanine, 115 x 125 ft., brick, here, to Los Angeles Bldg. & Contg. Co., Marsh-Strong Bldg., Los Angeles.

Calif., Long Beach—Creamery—J. Clamness, 2701 Anaheim Rd., 2 story, 60 x 130 ft., concrete and brick, to E. L. Chessman, 529 West 7th St.

Calif., Long Beach—Garage—City Transfer & Storage Co., 134 Pacific Ave., 1 story, 100 x 180 ft., brick, 5th St., by day labor.

Calif., Long Beach — Garage — L. Y. Cooper, 503 East Ocean Ave., 1 story, 100 x 150 ft., brick, Linden Ave., to J. D. Sherer, 1865 West Anaheim Rd.

Calif., Long Beach—Warehouse—Amer. Wholesale Hardware Co., 133 American Ave., 3 story, brick and concrete, Anaheim Rd., to Sherer & Son, 1865 East Anaheim Rd., $125,000. Noted Nov. 3.

Calif., Los Angeles—Garage—H. H. Cotton, Merchants Natl. Bank Bldg., 1 and 2 story, brick, 20th and Firueroa Sts., to J. A. Kemp, 803 East 28th St., Los Angeles, $45,000.

Calif., Los Angeles—Garage—Gilbert & Cole, c/o contractor, 1 story, 80 x 280 ft., brick, Imperial St. and Santa Fe Ave., to V. P. Gilbert, Citizens Natl. Bank Bldg., Los Angeles.

Calif., Los Angeles—Garage—W. B. Merwin, H. W. Hellman Bldg., 1 story, 100 x 150 ft., brick, North Western Ave., to Nance Constr. Co., 5503 Sunset Blvd.

Calif., Los Angeles—Warehouse—Kemplin & Nittinger, 2235 East 7th St., 2 story, brick, Western Ave., to W. B. Moorehead, 2300 South Union Ave., $42,000.

Calif., Monrovia — Laundry — Southern Service Co., c/o contractor, 1 story, 50 x 60 ft., brick, to Austin Co. of California, Bartlett Bldg., Los Angeles.

Calif., Pasadena—Garage—F. W. Alden, 425 North Raymond Ave., 1 story, 75 x 150 ft., brick, Fair Oaks Ave., by day labor.

Calif., San Francisco—Warehouse, etc.—Richmond Sanitary Mfg. Co., 460 2nd St., 4 story and basement, concrete, warehouse and office, 10th and Brannan Sts., to Cahill Bros., Sharon Bldg., San Francisco, $40,000.

Ont., Gananoque—Factory—Milk Foods Ltd. altering rein.-con. factory, to Carswell Constr. Co., 58 Wellington St., Toronto, $75,000.

Buildings

PROPOSED WORK

R. I., Auburn—Theatre—Playhouses, Inc., plans 2 story and basement, 76 x 150 ft., brick and steel, plain foundation, Park and Pontiac Aves. Private plans.

R. I., Newport—Courthouse—Newport Co. taking competative plans 3 story, brick, stone and steel, Washington Sq. $300,000. H. B. Baer, on com. Noted Nov. 29.

R. I., Pawtucket—Church, etc.—St. Johns Roman Catholic Church having plans prepared by O. E. Nault, 48 Hamilton St., Worcester, Mass., 1 story, 80 x 175 ft. church, also rectory building, brick and stone, plain foundation, Slater Ave. $300,-000. A. J. Graton, pastor. Noted Mar. 1.

Buildings (Continued)

R. I., Pawtucket—High School—School Comm. having plans prepared by R. C. N. Monahan, 255 Main St., 3 story, brick and fireproof, Front St. $250,000.

R. I., Providence—Church—St. Adelberts Roman Catholic Church having plans prepared by H. F. Ludorf, Mutual Bldg., New Britain, Conn., and takes bids about Mar. 1, 1 story and high tower, brick and terra cotta, Atwells Ave. $175,000. Noted May 31.

R. I., Providence—Church—Tabernacle Methodist Episcopal Church having plans prepared by Woodbury & Stuart, 53 State St., Boston, Mass., 2 story, stone, brick and tile, in Olneyville section. $250,000. J. H. Slutz, pastor.

R. I., Woonsocket—High School—School Comm. plans 3 story, brick and steel school and assembly hall. $180,000. W. F. Fontaine, Federal Bldg., archt.

Conn., Hartford — Apartment — M. W. Delaney, 237 Greenfield St., plans 4 story, brick, plain foundation, Farmington Ave. $150,000. Engineer and architect not selected.

Conn., New Haven—Apartment—Carmelo Abbadessa, 159 Winthrop Ave., having plans prepared by L. J. A. Julianelle, 42 Church St., 3 story, 115 x 155 ft., brick and stone, Dwight St. $175,000.

Conn., New London—Clubhouse—Seaside Council, Knights of Columbus, plans 2 story, brick, plain foundation, Huntington St. $150,000. Private plans.

N. Y., Brooklyn — Synagogue — Union Temple, Bedford and Lafayette Aves., having plans prepared by Arnold W. Brunner, archt. and engrs., 101 Park Ave., New York, brick, steel and stone, plain foundation, Eastern Parkway and Plaza St. $1,000,000.

N. Y., Fort Edward—School—Bd. Educ. having plans prepared by Roth & White, archts. and engrs., 109 State St., Albany, and takes bids about Mar. 1, 3 story, 98 x 120 ft., brick and steel, plain foundation. $200,000.

N. Y., New Rochelle—Apartment—Pepperday Inc., Echo Ave. and Boston Rd., having plans prepared by L. M. Loeb, 49 Lawton St., 6 story and basement, 110 x 150 ft., brick and stone, Echo Ave. and Main St. $500,000.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., soon takes bids 4 story top addition, brick, steel and stone, 121 West 73rd St. $800,000. McKenzie, Voorhees & Gmelin, 344 Madison Ave., archts. and engrs. Noted Mar. 22.

N. Y., Niagara Falls—Theatre—H. Lumburg, c/o Lumburg Theatre, 36 Falls St., plans theatre, 3,000 seating capacity, Falls and Main Sts. To exceed $150,000.

N. Y., North Tonawanda—Schools—North Tonawanda School Dist. 1, election Feb. 2, to vote on $650,000 bonds new schools. Noted Nov. 15.

N. J., Lyndhurst—Grade and High School—Bd. Educ. having plans prepared by R. Hacker, 1012 Palisade Ave., Palisade, 2 story, 220 x 245 ft., brick, Weart, Grant, Post and Fern Aves. $350,000.

N. J., New Brunswick — Dormitory — Rutgers College, College Ave., plans Hegeman Dormitory. $150,000.

Pa., Phila.—Apartment—G. K. Davidgan, c/o T. B. Lippincott, archt., 11 South 16th St., having plans prepared 8 story and basement, 44 x 225 ft. brick and steel, plain foundation, 21st and Venango Sts. $400,000.

Pa., Phila.—Church—Church of Transfiguration, 55th and Cedar Sts., having plans prepared by H. D. Dagit & Sons Co., 34 South 17th St., 1 story, 75 ft. high, 62 x 175 ft. steel and granite, plain foundation, 55th and Cedar Sts. $400,000.

W. Va., Huntington—Hotel—L. J. Dean, archt., Foster Bldg., preparing plans 10 story hotel to be known as Park Tower Hotel. $250,000.

N. C., Winston-Salem—School—City having plans prepared and soon takes bids for Old Town Consolidated School Building. $150,000. Engineer and architect not announced.

Fla., Tampa—Office—V. M. Antuono, c/o C. H. H. Cigar Co., 1316 Spring St., had plans prepared by F. O. Adams, Jr., Grand Theatre, Tampa, and Hentz, Reid & Adler, 92½ North Forsyth St., Atlanta, Ga., 16 story, 75 x 83 ft., steel frame, Tampa and Lafayette Sts. $800,000.

La., Baton Rouge—Cafeteria—State Agricultural College plans Cafeteria building. $200,000.

La., New Orleans—Hospital—South Side Baptist Hospital plans $2,000,000 building here. First unit to cost $500,000. Address P. I. Lipsey, Jackson, Miss.

Tenn., Memphis — Jail — Shelby Co. had plans prepared by Jones & Furbringer, Porter Bldg., and takes bids about Feb. 1, brick and stone, Washington Ave. $700,000. Noted Aug. 7.

Tenn., Nashville—Apartment—Prichett-Thomas Co., Stahlman Bldg., soon takes bids 8 story and basement, rein.-con., brick and steel, 7th Ave. and Union St. $400,000. Asmus & Clark, Stahlman Bldg., archts. Noted Oct. 4.

Tenn., Nashville—Apartment—Washington Court Realty Co. had plans prepared by C. K. Colley, 4th and 1st Natl. Bank Bldg., concrete, brick and stone, in Hillsboro. $300,000

O., Columbus — Bank and Office — Columbian Building & Loan, 22 East Gay St., had plans prepared by F. L. Packard, 16 East Broad St., 4 story and basement (ultimately 12 story), 91 x 187 ft., rein.-con., Gay and Pearl Sts. $500,000.

O., Lakewood (Cleveland P. O.)—Apartment—Urban Realty & Development Co., c/o M. W. Bruml, 817 Guardian Bldg., Cleveland, having plans prepared by Braverman & Havermaet, Ulmer Bldg., Cleveland, 3 story and baseemnt, 110 x 125 ft., brick, Cook and Lake Aves., here. $250,000.

O., Toledo—Apartments—L. Nathanson, c/o Reuben Realty Co., 607 Madison Ave., plans 3 story, brick, Glenwood and Central Aves. $150,000. Engineer and architect not announced.

Ind., Ft. Wayne — School — Bd. Educ. having plans prepared by L. C. Ward, engr., c/o Bd. Educ., and takes bids in February, Lakeside Public School, Forest Park. $275,000. Noted Nov. 29.

Ind., South Bend — Clubhouse — Knights of Columbus take bids about Mar. 1, 3 story, 93 x 198 ft., brick, steel and terra cotta. $175,000. Nicol, Scholer & Hoffman, Ross Bldg., Lafayette, archts.

Ind., Valparaiso—Lodge—B. P. O. E. 500, plans 3 story and basement, rein.-con., steel and brick. $175,000. C. B. Weatherhogg, 250 West Wayne St., Ft. Wayne, archt.

Mich., Alma—School—Bd. Educ. having plans prepared by Lane, Davenport & Peterson, Charlevoix Bldg., Detroit, 3 story, 280 x 300 ft. rein.-con., brick and steel, plain foundation. $260,000.

Mich., Clawson—School—Bd. Educ. having plans prepared by Lane, Davenport & Peterson, Charlevoix Bldg., Detroit, 2 story and basement, 70 x 175 ft. rein.-con. and brick, plain foundation. $150,000.

Mich., Detroit—Clubhouse—Detroit Lodge B. P. O. E., Lafayette Blvd., plans 8 story, rein.-con., brick and steel. $1,250,000. J. J. Collins, secy. Architect not selected.

Mich., Kalamazoo—Hotel—E. S. Batterson, archt., 405 Hanselman Bldg., preparing plans 3 story, 50 room, brick and steel, plain foundation. $150,000. Owner's name withheld.

Ill., Chicago—Apartment—M. Astrahan, c/o J. J. Jensen, archt., 4815 North Lawndale St., having plans prepared 3 story, 105 x 183 ft., rein.-con., brick and steel, Spaulding St. near Fullerton St. $200,000.

Ill., Chicago—Apartment—P. Demes, c/o J. J. Jensen, archt., 4815 North Lawndale St., having plans prepared 3 story, 60 x 125 ft., fireproof, North and Artesian Sts. $150,000.

Ill., Waukegan—Apartment and Store—J. Detienne, 20 North Genesee St., having plans prepared by P. Gerhardt, 64 West Randolph St., Chicago, 3 story and basement, 50 x 100 ft., brick and concrete, plain foundation, West Washington St. $150,000.

Ill., Waukegan—Bank—Security Savings Bank, 214 Washington St., plans 3 story, 72 x 100 ft., brick, stone and concrete, plain foundation. $250,000. Engineer and architect not selected.

Ill., Winnetka — Hall — Village plans 3 story and basement, on Square. To exceed $150,000. Engineer and architect not selected.

Wis., Milwaukee—Apartment—Allied Investment Co., c/o Leenhouts & Guthrie, archts., 424 Jefferson St., preparing plans 3 story, 48 x 115 ft., brick and concrete, plain foundation, Juneau St. $150,000.

Wis., Milwaukee—Apartment—Clas, Shepherd & Clas, archts., 445 Milwaukee St., preparing plans 3 story, brick, tile and concrete, plain foundation, Grand Ave. $150,000. Owner's name withheld.

Wis., Milwaukee — Apartment — C. W. Valentine, archts., 405 Bway., soon takes bids 7 story and basement, 90 x 135 ft., brick, tile and concrete, plain foundation, Prospect Ave., for L. C. and L. Goldman, 534 Mitchell St. $250,000.

Wis., Milwaukee—Office—O. Brachman, 425 East Water St., plans 8 story and basement, brick and concrete, plain foundation, Grand Ave. $300,000. Engineer and architect not selected.

Wis., Wauwatosa—Asylum—Bd. Trustees c/o W. L. Coffey, mgr. Milwaukee Co. Institutions, plans 3 story and basement addition to Asylum for Insane, Watertown Rd., brick and concrete, plain foundation. $350,000. Engineer and architect not selected.

Wis., Wauwatosa—High School—Union Free High School Dist., c/o G. J. Davelaar, dir., plans 2 story, brick and concrete, plain foundation. $300,000-$400,000. Engineer and architect not selected.

Wis., West Bend—School—Holy Angels Congregation, J. Hyde, pastor, receiving competitive sketches 2 story and basement, brick, tile and concrete, plain foundation. $150,000.

Ia., Des Moines—Office—Southern Surety Co., Register and Tribune Bldg., having plans prepared by Sawyer & Watrous, 401 Hippee Bldg., and takes bids about Feb. 1, 13 story and basement, 66 x 132 ft., rein.-con., brick and stone, 6th and Mulberry Sts. $600,000.

Kan., Parsons—High School—Bd. Educ. having plans prepared by T. W. Williamson & Co., 312 Central Bank Bldg., Topeka, 3 story and basement, rein.-con., brick and stone. $500,000.

S. D., Rapid City—School—Bd. Educ. having plans prepared by Perkins & McWayne, Paulton Blk., Sioux Falls, 2 story and basement, rein.-con., brick and tile. $275,000.

Ark., Conway—Gymnasium—Hendrix College plans 2 story and basement, brick and rein.-con., plain foundation. $150,000. Private plans.

Ark., Little Rock—Hotel—Newcomb Hotel Co., c/o J. J. Newcomb, Marion Hotel, having preliminary plans prepared 10 story and basement, 110 x 140 ft., brick, rein.-con. and steel, 7th and Main Sts. First unit of 200 rooms and bath to start about Mar. 1. Engineer and architect not selected.

Tex., Dallas — Church — First Baptist Church, c/o T. A. Johnson, Ervay and Patterson Sts., having plans prepared by R. H. Hunt & Co., Southwestern Life Bldg., 7 story, brick, steel and concrete, St. Paul and San Jacinto Sts. $350,000.

Tex., Houston—Hotel and Store—Capitol Hotel Co., 912 Capitol St., plans to rebuild hotel recently destroyed by fire, Capitol and Main Sts. $400,000. Engineer and architect not announced.

Tex., San Antonio — Church — Grace Evangelical Lutheran Church, c/o P. F.

SEWER—TOLEDO, OHIO

Following are lowest three bids opened by city, Dec. 18, for constructing Relief Sewer No. 1432, from Swan Creek to Monroe St., (A) Anderson & Campbell, 81 Petersboro St., Detroit; (B) R. Mercier, Griswold St., Detroit; (C) Graham & Henderson, Cleveland. The unit bids were as follows:

	A	B	C
493 lin.ft. 30 in. sewer	$13.10	$10.00	$16.50
1,292 lin. ft. 36 in. sewer	13.60	12.00	16.50
2,016 lin.ft. 48 in. sewer	16.00	15.00	16.75
952 lin.ft. 60 in. sewer	19.25	17.75	20.75
949 lin..ft. 72 in. sewer	24.50	24.00	25.45
1,042 lin.ft. 84 in. sewer	27.50	29.00	28.25
1,530 lin.ft. 90 in. sewer	30.00	30.00	32.00
2,253 lin.ft. 96 in. sewer	33.00	34.00	36.00
5–8 in. vitrified pipe stub connections in 96 in. sewer	1.50	5.00	2.00
686 vertical ft. standard concrete manhole	12.00		17.50
686 vertical ft. standard brick manhole	14.00	10.00	17.50
22 standard manhole frames and covers	25.00	30.00	30.00
100 M.ft. B.M. extra lumber	50.00	50.00	38.00
100 cu.yd. rock excavation	2.00	10.00	4.00
20 cu.yd. brick masonry	25.00	20.00	20.00
1 concrete bulkhead at outlet, as per plans, lump sum	2,160.00	2,000.00	3,000.00
7 special connections to main sewer of lateral	140.00		250.00
Extended totals	$264,396	$266,013	$288,656

Buildings (Continued)

Hein, pastor, receiving competitive sketches, 75 x 144 ft. stone, Ave. E and 5th Sts. $150,000.

Tex., San Antonio—Hotel, etc.—Prudential Hotel Co. plans 3 story, 90 x 180 ft. top addition to present 4 story hotel, rein.-con., brick and stone, Main Plaza and Market Sts., $150,000; 6 story, rein.-con., brick and stone hotel, plain foundation, adjoining present hotel, East side Main Plaza and Market Sts., $250,000. A. Sanner, mg. and prop. Engineer and architect to be selected soon.

Tex., San Antonio—Real Estate—B. G. Irish, 405 Navarro St., pres. Real Estate Bd., receiving competitive sketches 3 story. $175,000.

Tex., Sweetwater—Lint House—Sweetwater Cotton Oil Co. having plans prepared lint house, concrete, brick and steel. $40,000. Engineer and architect not announced.

Okla., Blackwell — Hall and Store — Masonic Lodge had preliminary plans prepared by Smith & Senter, 401 Commerce Bldg., Okmulgee, 3 story, 50 x 140 ft., rein.-con. and brick, plain foundation, Main St. $150,000. Noted Dec. 27.

Okla., Oklahoma City—City Hall and Office—City having preliminary plans prepared 6 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation, Grand St. $600,000. B. M. Hart, city engr. Architect not selected.

Utah, Salt Lake City — Office — Ezra Thompson Investment Co., having plans prepared by Pope & Burton, New House Bldg., 10 story, 75 x 154 ft., concrete and brick, Main St. between 1st and 2nd Sts.

Calif., Bakersfield—Schools—Bd. Educ. plans additions to schools and new buildings in Alta Vista tract. $300,000. C. E. Teach, city supt. of schools.

Calif., Beverly Hills—Apartment, Bank, Store and Theater—J. A. Vaughan, 5930 Wilshire Blvd., Los Angeles, having preliminary plans prepared by Chisholm & Meikle, 509 South Western Ave., Los Angeles, 3 story, 115 x 150 ft., brick, Wilshire Blvd., here.

Calif., Calexico—Hotel and Store—W. A. Skinner, c/o A. C. Martin, archt., Higgins Bldg., Los Angeles, having plans prepared 3 story, 136 x 150 ft., rein.-con. $150,000.

Calif., Colma — High School — Jefferson Union High School Dist. having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, rein.-con. $180,000.

Calif., Los Angeles — Apartment and Hotel—Los Angeles Income Properties Corp., Pacific Finance Bldg., having plans prepared by Dodd & Richards, Bracks-Shops Bldg., 6 story and basement, rein.-con. apartment, 6th St. and Benton Blvd., $350,000; also plans 4 story, brick or concrete apartment and hotel, 6th St. and Westmoreland Ave., $150,000, engineer and architect not announced.

Calif., Los Angeles—Bank and Office—Pacific Southwest Trust & Savings Bank, 565 South Spring St., having plans prepared by Parkinson & Parkinson, Title Insurance Bldg., 12 story and basement, fireproof, steel frame, 6th and South Spring Sts. $750,000.

Calif., Los Angeles—Store and Office—K. MacDonald, Jr., archt., Bracks-Shops Bldg., preparing plans 12 story, 115 x 175 ft., rein.-con., 7th and Flower Sts. Owner's name withheld.

Calif., Los Angeles—Theatre and Store—West Coast Theatres, Inc., Knickerbocker Bldg., having plans prepared by A. C. Martin, Higgins Bldg., 2 story, rein.-con., Washington and Vermont Aves. $175,000. Noted May 10.

Calif., Los Angeles—Hotel—W. H. Dearing, 5540 Santa Monica Blvd., had plans prepared by S. B. Birds, 1203 Huntley Dr., 4 story and basement, brick, Santa Monica Blvd. $150,000.

Calif., Point Loma—Hotel—Point Loma Hotel Co., c/o M. Hunt, archt., Hibernian Bldg., Los Angeles, having preliminary plans prepared 5 story, rein.-con., here. To exceed $500,000.

Calif., San Diego — Bath House — L. Rogers, archt., Spreckels Bldg., prepared plans rein.-con. and brick, Mission Beach. To exceed $150,000. Owners name withheld.

Calif., San Diego—Office and Store—J. and D. Parkinson, archts., Title Insurance Bldg., preparing preliminary plans 12 story, brick and steel. To exceed $750,000. Owners name withheld.

Calif., San Francisco—Apartment—A. Johnson, 47 Belvedere St., having plans prepared by Baumann & Jose, 251 Kearny St., three 3 story and basement, frame, Van Ness Ave. near Francisco St. $50,000 each.

Calif., Santa Monica—Hotel and Apartment—A. C. Blumenthal, et al., Loew State Bldg., Los Angeles, plans 12 story hotel and apartment, here. $1,250,000. Engineer and architect not selected.

Calif., South Pasadena—Home—Boys & Girls Aid Society, c/o M. Hunt, archt., Hibernian Bldg., Los Angeles, plans fireproof, rein.-con., home buildings, here. $150,000.

Calif., Talmage—Hospital—State Hospital Bd., Sacramento, having plans prepared receiving building, fireproof, state hospital grounds, here. $150,000. B. G. McDougall, Forum Bldg., Sacramento, state archt.

Ont., Ottawa—Hospital—Ottawa Hospital Comn. plans new childrens hospital in connection with Lady Grey Hospital, Carling Ave. $150,000. Engineer and architect not selected.

Ont., Port Arthur—Church—St. Andrews Catholic Church having plans prepared by Pennington & Boyde, Bartlett Bldg., Windsor, 1 story and basement, brick, steel and stone, plain foundation. $150,000.

Ont., Richmond Hill—High School—Bd. Educ. having plans prepared by Burden & Gouinlock, 101 King St. W., Toronto, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation, $150,000.

Ont., Toronto—School of Commerce—Bd. Educ., 155 College St., having plans prepared by C. E. C. Dyson, 155 College St., 3 story and basement, 56 rooms, rein.-con., brick and steel, plain foundation, Chatham St. $650,000.

Ont., Toronto—School—Bd. Educ. having plans prepared by C. E. C. Dyson, 155 College St., 3 story and basement, 60 room, rein.-con., brick and steel, plain foundation, either Oakwood or Humberside Aves. $800,000.

N. B., St. John—Hotel—Admiral Beatty Hotel Co. Ltd., takes bids in February, 10 story, 160 x 160 ft. brick, steel and stone, plain foundation, King Sq. $750,000. Ross & McDonald, Belmont St., Montreal, Que., archts. Noted Dec. 13.

BIDS DESIRED

R. I., Pawtucket—High School—School Com. taking bids 3 story, brick, steel and concrete, plain foundation, Silver Spring St. $350,000. R. C. N. Monahan, 255 Main St., archt.

Conn., Wallingford—Clubhouse—Jan. 26, by Wallingford Y.M.T.A.B. Society, 3 story, brick, plain foundation, Center St. $150,000. W. T. Arnold, 34½ West Main St., Meriden, archt. Noted Apr. 26.

Conn., Waterbury — Home — Feb. 1, by Southmayd Home Inc., 2½ story, brick, plain foundation, Boulevard. $150,000. W. H. Pierce, pres. W. A. Arnold, 34½ West Main St., Meriden, archt. Noted Jan. 10.

N. Y., Brooklyn—Nurses Home—Jan. 15, by H. J. Nurick, archt. and engr., 44 Court St., brick, steel and stone, plain foundation, Hart St. and Stuyvesant Ave., for Beth Moses Hospital, Hart St. $150,000.

N. Y., Brooklyn—School—Jan. 22, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., P. S. 197, Elmore Pl. through to Delamere Pl. 200 ft. south of Ave. O, for Bd. Educ., 500 Park Ave., New York.

N. Y., Industry—Hospital—Feb. 13, by W. Whitney, pres. Bd. Mgrs. State Agricultural & Industrial School, rebuilding hospital. S. W. Jones, Albany, state archt.; adv. E. N.-R. Jan. 17.

N. Y., Troy—Bank—Jan. 19, by T. B. Boyd, Inc., engrs., 286 5th Aves., New York City, remodeling and constructing 2 story, 55 x 131 ft., brick, steel and stone addition, plain foundation, 1st St., here, for Natl. City Bank. $150,000. E. W. Loth, 286 5th Ave., New York City, archt.

Pa., Indiana—High School—Jan. 25, by Bd. Educ., 2 story and basement, 154 x 155 ft. concrete and brick. $400,000. Thayer & Johnson, 5716 Euclid Ave., Cleveland, O., archts.

Pa., Palmerton—High School—Jan. 18, by W. H. Lee, archt., 15th and Race Sts., 3 story and basement, 139 x 165 ft., 3rd and Lafayette Sts., for Bd. Educ. Noted Dec. 20.

Pa., Phila.—Hotel—Jan. 21, by W. L. Redditt, archt., Otis Bldg., 16 story and basement, 40 x 91 ft., brick and steel, plain foundation, 18th and Chestnut Sts., for R. J. Seltzer, 1423 Locust St.

Pa., Phila.—University Hall—Feb. 8 (extended time), by Sanderson & Page, archts., 315 South 15th St., 4 story and basement, brick and steel, plain foundation, 34th and Walnut Sts., for University of Pennsylvania, 34th and Spruce Sts. $350,000.

Md., Baltimore—Apartment—Jan. 30, by J. H. and F. J. Thuman, archts., 2401 Shirley Ave., 4 story, 101 x 102 ft., brick and steel, plain foundation, Harford Rd. and Parkside Dr., for Arcadia Building Corp., c/o archts. $350,000.

D. C., Wash.—School—Feb. 4, at Room 509 Dist. Bldg., 20 room school; adv. E. N.-R. Jan. 17.

W. Va., Huntington—Court House—Feb. 6, by County Court Cabell Co., 3 story addition. R. S. Douthat, clk.; adv. E. N.-R. Jan. 17.

La., Jeanerette—High School—Jan. 22, by Police Jury Iberia Parish, 1 story, 48 ft. high, 123 x 172 ft. concrete and brick, $150,000. W. T. Nolan, 1000 Canal Commercial Bldg., New Orleans, archt.

O., Cleveland — Apartment — E. Kosleu, 10612 Olivet Ave., taking bids and opens same about Jan. 25, 3 story and basement, 90 x 99 ft., brick, East 125th St and Edmonton Rd. $160,000. L. R. Walker, and J. L. Mauer, 1909 Euclid Ave., archts.

O., Columbus — Church — Jan. 22, by Miller & Reeves, archts., 20 South 3rd St., 1 story and basement, 100 x 100 ft., brick and concrete, 1,200 seating capacity, East Mound St., for St. Johns Lutheran Evangelical Church. $170,000.

O., Columbus—Medical Science—Jan. 30, by Bd. Trustees Ohio State University, 4 story and basement, 50 x 125 ft., rein.-con. and brick addition, to campus. $200,000. J. N. Bradford, Ohio State University, archt. Noted Dec. 27.

Ind., Indianapolis—Temple—Jan. 19, by Vonnegut, Bohn & Mueller, archts., 610 Indiana Trust Bldg., brick temple, 34th and Ruckle Sts. for Beth El Jewish Congregation. $150,000. Noted Dec. 13.

Mich., Algonac—School—Jan. 28, by R. Gilbert, secy. Bd. Educ., 3 story, 100 x 154 ft. rein.-con., brick and steel, plain foundation. $160,000. W. Holmes-Power Co., Lansing, archts.

Ill., Cicero—Hotel—Dubin & Eisenberg, archts., 14 West Washington St., Chicago, taking bids and open same about Feb. 1, 4 story and basement, 91 x 125 ft., brick, concrete, stone and terra cotta, 52nd and 24th Sts., here, for A. Bartelstein, 1340 Independence St., Chicago. $300,000. Noted Jan. 10.

Ill., Joliet—Theatre—Feb. 1, by C. W. and G. L. Rapp, 190 North State St., Chicago, 4 story and basement, rein.-con., brick and steel, Clinton and Scott Sts., for H. A. and M. L. Rubens, c/o Princess Theatre, $600,000.

Wis., Lancaster—High School—Jan. 29, by School Bd., J. F. Glanville, clk., 2 story and basement, brick, tile and concrete, plain foundation. $200,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts.

Wis., Mayville — High School — Jan. 31 (extended date) by School Bd., O. D. Naber, chn. building com., 2 story and basement, 72 x 157 ft. high school and 80 x 200 ft. gymnasium, brick, tile and concrete, plain foundation. $200,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts. Noted Jan. 10.

Wis., Prairie du Sac—School—Jan. 30, by Bd. Educ., c/o F. J. Schulz, clk., 2 story, 60 x 150 ft., brick, rein.-con. and stone, plain foundation. J. R. and E. J. Law, 1st Central Bldg., Madison, archts. Noted Nov. 15.

Minn., Northfield — Lodge — Feb. 2, by I. O. O. F. of Minnesota, A. L. Bolton, secy., 604 Pittsburgh Bldg., St. Paul, superstructure for 3 story and basement, 93 x 146 ft., rein.-con., brick and tile, here. Total $150,000. W. L. Alban, 347 Endicott Bldg., St. Paul, archt. Noted Aug. 9.

Minn., St. Paul — School — Jan. 22, by H. W. Austin, city purch. agt., 2 story and basement, rein.-con., brick and tile, known as Adams School. $250,000. F. X. Tewes, city archt.

Neb., Lincoln—Store—Jan. 20, by Gold & Co., c/o W. Gold, 6 story and basement, 75 x 140 ft. rein.-con., brick and stone, 11th St. $400,000. Davis & Wilson, Securities Bldg., archts.

Mo., Clayton—Convent and School—Jan. 21, by A. B. Groves, archt., Stock Exch., St. Louis, 2 and 3 story, brick, concrete and stone, here, for Sisters of St. Joseph, Kansas and Minnesota Sts., St. Louis. $700,000.

Mo., Webster Groves—Auditorium—Feb. 1, by Webster Groves Presbyterian Church, 1 story and basement, 75 x 160 ft., brick and stone, Lockwood and Gore Aves. $160,000. A. B. Grove, Stock Exch., St. Louis, archt.

Tex., Corsicana—Hotel—G. A. McGregor, Kirby Bldg., Dallas, taking bids 5 story and basement, 80 x 100 ft., brick and concrete, 11th St. Young & Young, Southwestern Life Bldg., Dallas, archts. Joor Eng. Co., Slaughter Bldg., Dallas, engrs. Noted Nov. 8.

Tex., San Antonio — Jan. 25 (extended date) by Adams & Adams, archts., 51[illegible]

Buildings (Continued)

Gibbs Bldg., 6 story, 80 x 142 ft., rein.-con., brick and stone, Navarro and Martin Sts., for Y. M. C. A. Noted Jan. 10.

Colo., Ft. Collins—High School—Jan. 22, by School Bd., c/o School Dist. 5, Larimer Co., 3 story, 150 x 350 ft., rein.-con., brick and stone. $400,000. W. N. Bowman, Central Savings Bank Bldg., Denver, archt. Contract awarded for foundation, to P. Surie, Denver, $11,000.

Calif., Fillmore—High School—Jan. 22, by Trustees Fillmore Union High School Dist., rein.-con. and hollow tile, high school incl. auditorium. N. F. Marsh, Bway Central Bldg., Los Angeles, archt. Noted Sept. 20.

Calif., Palo Alto—Hotel—W. H. Weeks, archt., 369 Pine St., San Francisco, and B. M. Clark, archt., 600 Embarcadero Rd., Palo Alto, receiving bids 3 story rein.-con., Hamilton Ave. and Ramona St., for A. B. Peterson, et al. $200,000. Noted Nov. 15.

Calif., Sacramento — College — Trustees Christian Brothers College, Martinez, taking bids two 2 story, concrete, brick or hollow tile college buildings, 21st and Y Sts., here. Bids will be taken on three types of construction. $200,000. Private plans. Noted Sept. 6.

Calif., San Rafael—Orphanage—J. J. Foley, archt., 770 5th Ave., San Francisco, receiving bids five 2 story, rein.-con. orphanage buildings, incl. 3 dormitories, gymnasium and chapel, here, for Roman Catholic Archbishop of San Francisco, 110 Franklin St., San Francisco. $150,000. Noted Jan. 3.

BIDS RECEIVED

N. Y., Bellaire (Jamaica P. O.)—School—Bd. Educ., 500 Park Ave., New York, Jan. 8, P. S. 109, brick, steel and stone, plain foundation, 92nd Ave. and 213th St., here, from Hayson Constr. Co., Arverne, $1,007,000, A deduct $30,000, B deduct $7,000, C add $4,000. Noted Dec. 27.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, Jan. 8, P. S. 201, brick, steel and stone, plain foundation, 12th Ave. and 80th St., here, from G. DeKempie, 30 Church St., New York, $798,000, A deduct $20,000, B add $5,500, C add $6,000. Noted Dec. 27.

N. Y., Buffalo — Bd. Educ., 1401 Telephone Bldg., general contract P. S. 71, 3 story, 200 x 225 ft., rein.-con. and brick, Lang Ave., general contract from G. Schaaf, 258 Kingsley St., $385,340; plumbing from Batt & Co., Inc., 955 Michigan Ave., $24,385; heating from J. J. Bresnahan, Inc., 41 Pearl St., $76,314. Noted Dec. 13.

N. Y., New York—School—Bd. Educ., 500 Park Ave., Jan. 8, P. S. 80, brick, steel and stone, plain foundation, East Mosholu Parkway, from Niewenhouse Co., Inc., 316 East 161st St., $779,000, A deduct $12,000, B add $5,570, C add $4,000. Noted Dec. 27.

Pa., Lebanon—School—Ritcher & Eller, archts., 147 North 5th St., Reading, 2 story and basement, 78 x 247 ft. with 58 x 80 ft. wing, Lehman, Henry and Hauck Sts., for Bd. Educ., from J. G. Greiner, 826 Walnut St., Lebanon, $213,000. Noted Jan. 3.

Md., Baltimore — School — Bd. Awards, Jan. 9, 2 story and basement, 111 x 211 ft., concrete and brick, plain foundation, Jackson Sq., Fairmont Ave. and Fayette St., from P. C. Streett Eng. Co., 406 St. Paul St., $493,900; heating, ventilating and vacuum system, from Enterprise Steam and Hot Water Heating Co., 619 West Franklin St., $55,987. Noted Dec. 27.

Ga., Atlanta — Office — See "Industrial Works."

Calif., Oakland — Administration — Alameda Co., 4 story, rein.-con., on county hospital grounds, from Clinton Constr. Co., 923 Folsom St., San Francisco, $483,000. Noted Sept. 27.

CONTRACTS AWARDED

Me., Portland — Office — New England Telephone & Telegraph Co., 4 story, 50 x 60 ft. addition to central office, brick and steel, Forest Ave., to F. W. Cunningham & Sons, 181 State St., cost plus basis. Archts. est. $300,000.

Mass., Boston — Hotel and Theatre — Olympia Theatres Inc., 142 Berkeley St., 13 story and basement, 180 x 300 ft., 55,000 sq.ft. floor space, rein.-con., brick and stone, wood pile foundation, Tremont, Hollis, Dillaway and Dore Sts., to Olympia Constr. Co., 333 Washington St., cost plus commission basis. Archts. est. $8,500,000. Noted Jan. 25.

N. Y., Brooklyn—Apartment—Johnson & Deischel, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, brick, steel and stone, plain foundation, Kossuth Ave., by day labor. $200,000.

N. Y., Brooklyn—Store—A. I. Namm & Son, Fulton St., 8 story, brick, steel and stone, plain foundation, Fulton St., to Thompson-Starrett Co., 49 Wall St., New York.

N. Y., New York—Apartments—B. L. W. Constr. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., will build two 6 story, brick, steel and stone, plain foundations, Wadsworth Ave., by day labor. $500,000 each.

N. Y., New York—Apartment—Danzing Building Corp., c/o D. S. Lang, archt. and engr., 110 West 34th St., will build 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, Bryant Ave., by day labor. $250,000.

N. Y., New York — Apartment — Fifty-Five East 72nd St. Corp., c/o A. J. Bodker, archt. and engr., 62 West 45th St., will build 15 story, brick, steel and stone, plain foundation, 55 East 72nd St., by day labor. $600,000.

N. Y., New York—Apartment—C. Glazer, c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., will build 5 story, 125 x 200 ft., brick, steel and stone, plain foundation, 24th St., by day labor. $250,000.

N. Y., New York—Apartment—Lewman Realty Co., c/o Goldner & Goldner, archts. and engrs., 47 West 42nd St., will build 6 story, brick, steel and stone, plain foundation, East 169th St., by day labor. $200,000.

N. Y., New York—Apartment—Mandel Ehrich Corp., 1 Pershing Sq., 14 story, brick, steel and stone, plain foundation, Park Ave. and 79th St., to Leddy & Moore, 125 West 40th St. Archts. est. $600,000.

N. Y., New York—Apartment—Plough-Fox Co., c/o C. Schaefer, archt. and engr., 394 East 150th St., will build 5 story, 85 x 150 ft., brick, steel and stone, plain foundation, University Ave., by day labor. $250,000.

N. Y., New York — Apartment — Saul Constr. Co., c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build 6 story, brick, steel and stone, plain foundation, Grand Concourse and 196th St., by day labor. $400,000.

N. Y., New York—Apartment—D. Schorn, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, 100 x 175 ft., brick, steel and stone, plain foundation, Valentine Ave., by day labor. $175,000.

N. Y., New York—Apartment—S. Williams, c/o H. G. Miller, archt. and engr., 1482 Bway., will build 6 story, 125 x 175 ft., brick, steel and stone, plain foundation, Madison Ave. and 109th St., by day labor. $350,000.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., 3 story, 105 x 275 ft., brick, steel and stone, plain foundation, 204 2nd Ave., to Industrial Eng. Corp., 30 Church St. Archts. est. $700,000.

N. Y., New York—Office—Glaser Holding Corp., c/o H. Wolff, archt. and engr., 30 East 23rd St., will build 12 story, brick, steel and stone, plain foundation, 36 East 30th St., by day labor. $250,000.

Pa., Corry—School—Bd. Educ., 2 story and basement, 127 x 162 ft., to E. A. Austin & Co., Erie. Archts. est. $175,000. Noted Jan. 10.

Pa., Phila.—Schools—School Bd., (1) 4 story and basement, 111 x 133 ft., 4th, George and Orianna Sts., (2) 4 story and basement, 111 x 133 ft., 6th, Carpenter and Montrose Sts., general contracts to McCloskey & Co., 1620 Thompson St., (1) $427,427 (2) $418,666; heating to W. P. McKenzie & Co., 315 South 15th St. (1) $44,118 (2) $44,116; plumbing to S. Faith & Co., Inc., 2427 Penna. Ave., (1) $27,000; Bulman Bros., 5th and Cumberland Sts., (2) $27,666. Noted Jan. 10.

Md., Baltimore—Ward, etc.—Childrens Hospital School, c/o W. G. Beecher, archt., 12 East Pleasant St., 3 story, ward building, boiler house, laundry and garage, brick, plain foundation, Green Spring Ave. and 41st St., to Frainie Bros. & Haigley, 19 West Franklin St. $165,000. Noted Dec 20.

N. C., Raleigh—Library—State College of Agriculture and Engineering, rein.-con., brick and marble library, on Campus, to J. W. Stout & Co., Sanford, $227,500. Noted Aug. 30.

Ga., Atlanta—Hotel—Henry Grady Hotel Co., 13 story and basement, 120 x 170 ft. and 50 x 120 ft., rein.-con., to Gude & Co., 64 Poplar St.

Ga., Macon—Apartment—W. J. and O. J. Massee, Jr., 104 Vineville Ave., 3 story, rein.-con., to Southern Ferro Concrete Co., 50 East Ellis St., Atlanta.

O., Cleveland — Apartment — S. Epstein, 9303 Adams Ave., 3 story, 39 x 142 ft., brick, Wymore Ave., to Zuckerman Bros., 11605 Kinsman Rd. Archts. est. $150,000. Noted Nov. 15.

O., Cleveland—Apartment—M. Stein, 511 Schofield Bldg., 3 story and basement, 102 x 126 ft., brick, Page Ave., to Zuckerman Bros., 11605 Kinsman Rd. Archts. est. $200,000.

O., Cleveland—Commercial and Office—Rapid Transit Land Co., 2409 Euclid Ave., 3 story and basement, brick, steel and concrete, East 105th St., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $150,000.

O., Cleveland—Lodge and Store—Aerie No. 135, Fraternal Order of Eagles, 2226 East 55th St., general contract incl. mechanical equipment, 10 story and basement. L shaped rein.-con., brick, tile and stone, Windsor Ave. N.E. and East 40th St., to Sperry Realty Co., 207 Pittsburgh Bldg., St. Paul, Minn., cost plus basis. Total cost about $1,000,000.

O., Dayton—Store—Simons & Co., North Main St., 3 story, 25 x 180 ft., rein.-con., stone and terra cotta. Main St., to Industrial Building Co., Reibold Bldg., $160,000. Noted Dec. 20.

Mich., Detroit—Mercantile—J. L. Hudson Co., Gratiot Ave., 15 story and basement, 100 x 244 ft. rein.-con., brick and steel, to Bryant & Detwiler Co., 2336 Dime Bank Bldg.

Mich., Redford—School—Redford Union Schools, Dist. 1, 2 story and basement, 10 room, brick and steel, plain foundation, Waterford Rd., to J. H. Patterson, Plymouth. Archts. est. $150,000.

Wis., Milwaukee — Apartment — Coddington Eng. Co., 290 3rd St., will build 3 story, 48 x 134 ft., brick and concrete, plain foundation, 12th St., by day labor. $150,000.

Wis., Milwaukee—Bank—Northwestern Natl. Bank, c/o J. Reutermann, 114 Grand Ave., foundation, 1st floor and excavation for 2 story and basement, 67 x 70 ft. and 30 x 65 ft., brick and concrete, plain foundation, Lisbon Ave., to Brun Constr. Co., 387 Clinton St. Total cost $150,000. Noted Dec. 27.

Wis., Milwaukee—Business—C. Niss & Sons, 697 3rd St., 4 story and basement, 85 x 150 ft., brick and concrete, plain foundation, to W. W. Oeflein, 86 Michigan St. Archts. est. $200,000.

Minn., Minneapolis—Office—Thorpe Bros., 206 Andrus Bldg., 8 story and basement, 47 x 109 x 120 ft., rein.-con., brick and tile, 521 Marquette Ave., general contract to Splady & Haagenson, 1022 Plymouth Bldg. Total $180,000. Noted Dec. 13.

Minn., St. Paul—School—Summit School Corp., 655 Holly Ave., general contract 2 story and basement, rein.-con., brick and tile, Goodrich Ave. and Dunlap St., to P. O. Nasvik, 1368 Ashland Ave., $176,000. Noted Dec. 20.

Kan., Emporia—Student Union—Kansas State Teachers College will build 2 story and basement, 110 x 137 ft., brick and rein.-con., on Campus, by day labor under supervision of S. H. Hill, supt. $150,000. J. H. Kellogg, Lawrence, Kan. archt.

Mo., Columbia—Memorial Hall Tower—E. E. Brown, business mgr. Missouri University, (1st unit) 43 x 376 ft., 140 ft. high, rein.-con., brick, white stone and limestone, on campus, to Simon Constr. Co., Columbia, $112,000. Cost complete $240,000. Noted Dec. 13.

Mo., St. Charles—Dormitory—Le Baume & Klein, archts., Compton Bldg., St. Louis, general contract 3 story, 42 x 154 ft., rein.-con. and brick, on campus, here, to J. J. Willner & Son, Alton, Ill., for Lindenwood College. Archts. est. $150,000. Noted Jan. 10.

Ark., Little Rock—Bank—Little Rock Federal Reserve Bank, general contract brick and stone bank, to Herman & McCain, Reigler Bldg.; heating, to Shaw Gas & Fuel Co., plumbing to Himstedt & Son, 320 Louisiana St., Engrs. est. $217,000.

Ark., Texarkana — Bank — Texarkana Natl. Bank, 8 story and basement, 25 x 140 ft., to Murch Bros. Constr. Co., Railway Exch., St. Louis, Mo. Engrs. est. $230,000.

Tex., Dallas — Church — East Dallas Christian Church, Peak and Junius Sts., 2 story and basement, 100 x 105 ft., brick and concrete, to Inge Constr. Co., Swiss and Hawkins Sts. $320,000. Noted Oct. 18.

Tex., Ft. Worth—Church—Travis Ave. Baptist Church will build 3 story and basement, 95 x 145 ft., brick and stone, by day labor. $150,000. C. Woodruff, Reynolds Bldg., archt.

Tex., Houston—Office—See "Industrial Works" under Warehouse, etc.

Ariz., Tucson—Library—Bd. Regents, 3 story and basement, 42 x 110 x 194 ft., brick, terra cotta, steel and rein.-con., on Campus, here, general contract to C. Campbell, 341 North 1st Ave., Phoenix, $190,760. Noted Dec. 20.

Buildings (Continued)

Wash., Seattle — Apartment — S. Berg, 3402 Woodland Park Ave., will build 6 story, 108 x 160 ft, rein.-con., 418 Loretta Pl., by day labor. $565,000. Stuart & Wheatley, Walker Bldg., archts.

Calif., Los Angeles—High School—City, 2 and 3 story, brick, Belvedere, general contract to J. F. Atkinson, Story Bldg., $238,700; heating to T. Haverty, 316 East 8th St., $28,350. Noted Jan. 10.

Calif., Los Angeles—Store and Loft—Wurlitzer Co., 605 West 7th St., 12 story and basement, rein.-con., Bway. near 8th St., to Larsen-Siegrist Co., Bartlett Bldg., $395,000. Noted Nov. 22.

Calif., San Francisco—Office—See "Industrial Work."

Ont., Toronto—Theatre—Danforth-Woodbine Theatre Ltd., Danforth and Woodbine Aves., will build 2 story and basement, 50 x 100 ft. rein.-con., brick and steel plain foundation, Danforth Ave., by day labor. $150,000. Noted Jan. 10.

Federal Government Work

PROPOSED WORK

N. Y., Brooklyn—Quarters—Spec. 4937—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans officers quarters at Naval Hospital, here.

Pa., Aspinwall (Pittsburgh P. O.)—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans 260 bed hospital, here. F. Hines, dir.

Md., Perryville—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans 260 bed hospital, here. F. Hines, dir.

D. C., Wash.—Extension—Spec. 4936—Bureau Yards & Docks, Navy Dept., plans extension to nurses quarters, here.

Va., Hampton Roads—Dredging—Spec. 4935—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dredging at Naval Operating Base, here.

S. C., North Island—Quarters—Spec. 4920—Bureau of Yards & Docks, Navy Dept., Wash., D. C., rejected bids for quarters at Naval Radio Compass Station, here. Noted Nov. 29.

Ky., Louisville—Steel Boat Hulls—U. S. Engineer, P. O. Box 72, plans to purchase two steel maneuver boat hulls 5 x 24 x 60 ft., one for Louisville Dist. and one for Huntington, W. Va. Dist.

Ky., Owensboro—Piles—U. S. Engineer, Louisville, plans to purchase hard wood piles for Dam 46, four hundred 20 ft., seven hundred and fifty 25 ft. and three hundred and fifty 30 ft. long.

Ky., Pikesville—Hospital—U. S. Veterans Bureau, Arlington Bldg. Wash., D. C., plans 60 bed hospital, here. F. Hines, dir.

Wis., Milwaukee—Cement—U. S. Engineer, Milwaukee, takes bids in February furnishing 13,500 bbl. cement.

Tex., Ft. Worth—Mooring Masts—Spec. 4939—Bureau Yards & Docks, Navy Dept. Wash., D. C., plans mooring masts, here.

Wash., Camp Lewis—Mooring Masts—Spec. 4940—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans mooring masts, here.

Wash., New Dungeness—Power Plant—Spec. 4938—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans rebuilding power plant at Radio Compass Station, here.

California—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans 250 bed hospital in southern part of state. F. Hines, dir.

BIDS DESIRED

Mass., Northampton—Laundry—Feb. 11, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., laundry building at Veterans Hospital, here. F. T. Hines, dir.; adv. E. N.-R. Jan. 17.

N. Y., New York—Finding Tower—Jan. 26, at U. S. Engineer Office, Room 608 Army Bldg., one 100 ft. range finding tower; adv. E. N.-R. Jan. 17.

Ala., Florence—Steel Roof Trusses—Feb. 7, at U. S. Engineer Office, Florence, structural steel roof trusses, etc., for power house at Wilson Dam, Tennessee River; adv. E. N.-R. Jan. 17.

Ala., Florence—Turbines—Mar. 1, at U. S. Engineer Office, Florence, 4 hydraulic turbines; adv. E. N.-R. Jan. 17.

Ky., Louisville—Jan. 21, by U. S. Engineer, P. O. Box 72, furnishing 1,800 round bars and 200 flat bars, soft and cast tool steel, various sizes, also 125 steel plates, various sizes, f.o.b. Louisville.

Ky., Louisville—Steel, Castings, etc.—Feb. 11, at U. S. Engineer Office, P. O. 72, structural steel, castings, etc., for Lock 46, Ohio River; adv. E. N.-R. Jan. 17.

Ky., Owensboro—Steel Forgings, etc.—Feb. 11, at U. S. Engineer Office, P. O. Box 72, Louisville, furnishing 10 tons cold rolled steel forgings, 28 tons reinforcing bars, 1,700 lb. phosphor bronze.

Ariz., Prescott—Kitchen and Mess Hall—Feb. 15, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D .C., kitchen and mess hall, etc., at U. S. Veterans Hospital 50, Whipple Barracks, here. F. T. Hines, dir.; adv. E. N.-R. Jan. 17.

Ore., Portland—Stone—Feb. 14, at U. S. Engineer Office, 216 New Post Office Bldg., furnishing stone for north and south jetties at Coos Bay; adv. E. N.-R. Jan. 17.

BIDS RECEIVED

D. C., Wash.—Bungalows—Dept. Interior, constructing 7 bungalows at St. Elizabeths Hospital, from B. H. Ennis, 1933 East 31st St., Baltimore, Md., $46,197 (150 days). Noted Dec. 27.

D. C., Wash.—Underpinning Foundations—Spec. 4934—Bureau Yards & Docks, Navy Dept., Wash., D. C., underpinning foundations, here, from Underpinning Foundation Co., 342 Madison Ave., New York City, (1a) $42,800, add $1,050 deduct $850, for two pile pier, add $1,100 deduct $900, for 3 pile pier (1b) add $1,125 deduct $800, for 2 pile pier add $1,075 deduct $850 for 3 pile pier, Alternate 1, Item 2, $39,875, (a) add $1,000 deduct $800, 2 pile pier, add $1,900 deduct $1,600 for 3 pile pier, (b) add $1,000 deduct $800, 2 pile pier, add $1,900 deduct $1,600, for 3 pile pier; Foundation Co., 120 Liberty St., New York City, (1) $54,000 (1a) add $1,250 deduct $770 (1b) add $1,250 deduct $770; R. J. Mansfield Co., 53 Park Pl., New York City, (1) $53,125 (1a) $1,400 (1b) $1,300 (2) $47,460 (2a) $1,300 (2b) $1,200 (3) $53,125 (3a) $1,400 (3b) $1,300. Noted Dec. 20.

Va., Norfolk—Remodeling—Spec. 4912—Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling officers quarters at Marine Corps Base, here, from Agostini Bros., 243 Arcade Bldg., (1) $3,240 (2) $100. Noted Dec. 27.

N. C., Cape Hatteras — Storage and Recreation—Spec. 4931—Bureau Yards & Docks, Navy Dept. Wash., D. C., storage and recreation room here, from J. B. Daily, Manteo, $1,785. Noted Dec. 20.

Ala., Florence—Lumber—U. S. Engineer Office, Florence, furnishing 200,000 ft. 2 x 10, and 50,000 ft. 3 x 10 yellow pine, various lengths, from Jefferson Lumber Co., Jefferson Co. Bank Bldg., Birmingham, Ala., $6,600.

CONTRACTS AWARDED

Va., Langley Field — Barracks — Constructing Quartermaster, U. S. Army, Wash., D. C., constructing barracks, to Cunningham Constr. Co., Newport News, $73,749.

N. C., Poyners Hill—Quarters and Boathouse—Spec. 4907—Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling quarters and constructing boathouse, here, to A. R. Masters Co., Inc., Bank of Hampton Bldg., Hampton, Va., $7,250.

Fla., Jacksonville — Catamarans — U. S. Engineer, 15 steel pontoon catamarans, to Novelty Steam Boiler Wks. Co., 917 South Howard St., Baltimore, Md., $14,430. Noted Nov. 8.

Ky., Addison—Lumber—U. S. Engineer, P. O. Box 72, Louisville, 30,000 ft. white oak select dimension, 35,000 ft. white oak common dimension, to W. H. Daulkins Lumber Co., Parkersburg, W. Va., $60 per M. Noted Jan. 3.

Ky., Louisville—Lock Gates—U. S. Engineer, furnishing and erecting lock gates for Lock and Dam 45, Ohio River, to Penn Bridge Co., Beaver Falls, $62,468.

Ky., Louisville—Metal Work—U. S. Engineer, P. O. Box 72, metal work for Dams 44 and 45, Ohio River, to Amer. Car & Fdry. Co., Jeffersonville, Ind., $76,300. Noted Jan. 10.

Ia., Carroll—Post Office—Treas. Dept., Wash., D. C., constructing Post Office, here, to J. S. Gebuhr, 214 Locust Lodge, Council Bluffs, Ia., $47,770.

Tex., Paris — Post Office, etc. — Treas. Dept., Wash., D. C., 1 story and basement, 88 x 109 ft., brick and stone Post Office and Court House, here, to C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $143,990. Noted Jan. 10.

Wash., Keyport—Extension—Spec. 4926—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to operating building, to J. G. Wethers, 720 33rd Ave., Seattle, $5,379. Noted Jan. 10.

Ore., Portland—Rock—Office U. S. Engineer, P. O. Bldg., 230,000 tons rock for Umquah Jetty, to Joplin & Eldon, McKay Bldg., $326,600. Noted Dec. 6.

Calif., Livermore—Plumbing, Heating, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plumbing, heating and electric work in Veterans Hospital here, to Latourette Fical Co., 2761 Sacramento Blvd., Sacramento, $238,800. Noted Dec. 13.

Unclassified

PROPOSED WORK

Heating System—New Britain, Conn.—School Bd. plans installing new oil heating system in building. $25,000. S. H. Holmes, supt.

Transmission Line — New York — Upper Hudson Electric & Railroad Co., Catskill, plans 14 mi. high tension transmission lines, 3 mi. distribution lines, transformers, etc., between Lexington and Jewett. $75,000.

Gas Tank—Albany, N. Y.—Municipal Gas Co., 126th St., had plans prepared additional gas tank, 3,000,000 cu.ft. capacity, 300 cu.yd. excav. and 100 cu.yd. rein.-con. Private plans.

Swimming Pool — Albany, N. Y.—Mid City Park Corp., Troy Rd., plans structure to house 30 x 75 ft. swimming pool with shower baths, etc. $75,000. W. Hassard, Albany, engr.

Grand Stand—Altamont, N. Y.—Albany Schenectady Co. Fair Assn. plans wooden grand stand, concrete foundation, 5,500 seating capacity. $30,000. Engineer and architect not selected.

Dock—Buffalo, N. Y.—General Chemical Co., 350 Abbott Rd., plans 650 ft. pile and concrete dock in Buffalo River, at Abbott Rd. To exceed $100,000.

Bulkhead—Camden, N. J.—See "Industrial Works."

Transmission Line, Coal Handling Equipment, etc.—Baltimore, Md.—See "Industrial Works."

Subdivision—Huntington, W. Va.—Arlington Land Co. plans developing 130 acre subdivision, roads, sidewalks, etc. $25,000.

Gas Mains—Fort Meyers, Fla.—See Industrial Work.

Service Tunnels—Baton Rouge, La.—State Agricultural College plans service tunnels to carry heating, gas and electric supply mains. $75,000.

Storage Tanks—Clarksville, Tenn.—Gulf Refining Co. plans 4 gasoline and oil storage tanks. $25,000.

Barns—Knoxville, Tenn.—East Tennessee State Fair Assn. plans exhibition barns, pens, etc., on Fair Grounds, near here. $50,000.

Stadium — Cleveland, O. — Western Reserve University, c/o R. L. Vinson, pres., 10940 Euclid Ave., plans 1 story, steel and concrete, Adelbert Rd. $250,000. Engineer and architect not selected.

Track Elevation—Ft. Wayne, Ind.—New York, Chicago & St. Louis R.R., Columbia Bldg., Cleveland, O., plans to expend $3,000,000 on improvements. Work includes track elevation on Clay, Barr, Lafayette, Clinton, Harrison, Calhoun, Ewing, Fulton and Van Buren Sts., here. E. E. Hart, ch. engr.

Grade Crossing Abolition—Milwaukee, Wis.—City included $1,000,000 bond issue in 1924 budget, for grade crossing abolition, J. Schwada, City Hall, engr.

Harbor Improvements—Milwaukee, Wis.—City included $500,000 bond issue in 1924 budget, for harbor improvements. Harbor Comn., City Hall, in charge.

Street Lighting—Shorewood (Milwaukee P. O.), **Wis.** — Having preliminary plans prepared ornamental street lighting system incl. concrete posts, hangers, cable, etc., on Oakland Ave., etc. $25,000. H. A. Schmitt, Village Hall, engr.

Street Sweeper—Mitchell, S. D.—City plans to purchase one motor driven street sweeper.

Levee—Jonesboro, Ark.—Bay St. Francis D. D. having preliminary plans prepared 25 mi. levee work and drainage ditches in Craighead Co. Cobb & Lee, Amer. Trust Bldg., engrs.

Levee—Lake City, Ark.—Cane Island D. D. 26, had plans prepared and takes bids about Feb. 15, levee construction and floating dredge work. $90,000. Cobb & Lee, Amer. Trust Bldg., Jonesboro, engrs.

Transmission Line—Texas—Texas Power & Light Co., Interurban Bldg., Dallas, had plans prepared high power transmission line from Tyler to Corsicana. $100,000. R. E. Keck, c/o owner, engr.

Levee—Ennis, Tex.—Ellis Co. rejected bids 1,000 ft. levee, 50,000 cu.yd. excav., etc. $250,000. Will readvertise at once. C. T. Forest, Waxahachie, engr. Noted Oct. 4.

Unclassified (Continued)

Levee — Kaufman, Tex. — Kaufman Co. Levee Dist. 1, having plans prepared excavation for levee, $146,000, C. T. Forest, Waxahachie, engr.; had plans prepared and soon takes bids about Feb. 1, levee improvements in Dist. 4, incl. 1,000,000 yd. earth work, two 24 in. centrifugal pumps, oil engine driven, and spillway, $175,000, B. F. Williams, Rosser, engr. Noted Dec. 13.

Levee — Rowlett, Tex. — Dallas Levee Impvt. Dist. 9, Court House, Dallas, plans levee improvements near here, Dallas Co. $55,000. McKay & Montgomery, Andrews Bldg., Dallas, engrs.

Grain Elevator—Weatherford, Tex.—H. J. Bradfish Elevator Co. plans grain elevator. $50,000-$75,000. Engineer and architect not announced.

Levee—Wylie, Tex.—L. Blaylock, mayor of Dallas, interested in formation of Levee Dist., for improvements at Wylie Lake and vicinity, Rockwall Co. $1,000,000. Engineer not announced.

Electric Light System—Waynoka, Okla. —Election Jan. 15, to vote on $28,000 bond issue for new switch board, boiler, stack, extensions and repairs to distribution system. J. D. Bomford, Enid, engr.

Transmission Lines — Washington — See "Industrial Works."

Tunnels — California — Southern Pacific R.R. Co., 65 Market St., San Francisco, having plans prepared several tunnels on Ogden route in Sierra Mountains. To exceed $25,000. G. W. Boschke, ch. engr.

Shaft—Dos Rios, Calif.—Carbon Coal Co., c/o A. L. Fisher, genl. mgr., 312 Henshaw Bldg., Oakland, plans sinking several thousand feet of double shaft equipped with steam power plant, hoists, cars, cables, etc.; also constructing 7 mi. railroad to connect with Northern Pacific line.

Power Line Extensions—Fresno, Calif.— San Joaquin Light & Power Co., 1801 Tulare St., appropriated $6,000,000 for power line extensions and developments to system, $1,000,000 to be used by Midland Counties Public Service Corp. and Fresno City Water Corp., subsidiary companies.

Pier — Hamilton, Ont. — Harbor Bd. of Dept. Pub. Wks., Parliament Bldg., Ottawa, having plans prepared pier, 3,000 ft. long, 200 ft. wide at Ottawa St., here. K. M. Cameron, ch. engr.

BIDS DESIRED

Dikes — New York — See "Excavation, Drainage, Irrigation."

Heating and Ventilating Apparatus — New York, N. Y.—Jan. 25, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S. 98, West 212th St. 100 ft. westerly from 10th Ave., Manhattan Boro, also in P. S. 78, Fish Ave. between Needham Ave. and Hicks St., Bronx Boro, here, for Bd. Educ., 500 Park Ave.

Bulkhead—Bayonne, N. J.—Jan. 28, by Hudson Co. Park Comn., 1 Exchange Pl., Jersey City, bulkhead at Bayonne Park, here. C. N. Lowrie, c/o owner, landscape archt.; adv. E. N.-R. Jan. 17.

Pier—Baltimore, Md.—Jan. 22, by Baltimore & Ohio R.R., B. & O. Bldg., 2 story, 185 x 1,046 ft., concrete and brick, Locust Pt. $1,500,000. H. A. Lane, ch. engr.

Stadium—Lexington, Ky.—University of Kentucky receiving bids and opens same about Mar. 10, concrete stadium, 16,000 seating capacity. $150,000. A. O. Whipple, 421 Rase St., Lexington, archt. Noted June 14.

Wharf — Houston, Tex. — Jan. 24, by Harris Co. Navigation Dist., Court House, concrete wharf with concrete piles and footing for grain carrier house. $190,000. E. A. Tucker, c/o owner, engr.

Distributing Lines—Calif., Modesto—Jan. 24, by C. S. Abbott, secy., Modesto Irrigation Dist., power distributing lines, rural territory: 60 mi. of 3 phase, 4 wire line and 160 mi. single phase, 2 wire line; city territory; 9 mi. 3 phase, 4 wire overhead line and 20 mi. single phase, 2 wire overhead lines. Schedules: (1) 3,200 Butt treated poles (2) 1,600 crossarms (3) line hardware (4) metal and wood pines (5) insulators (6) wire (7) labor for constructing over head system. Separate bids for labor and materials. E. J. O'Connell, dist. electrical engr.

CONTRACTS AWARDED

Pier—Biloxi, Miss.—Biloxi Park Comn., pier to C. A. Thompson Biloxi. Engrs. est. $25,000.

Levee—Osceola, Ark.—St. Francis Levee Bd. 3,200 ft. loop in levee, to Roach, Stancil, Lowrance Bros. & Co., North Memphis Savings Bank Bldg., Memphis, Tenn., $125,000.

Grain Elevator—Beaumont, Tex.—Josey-Miller Grocery Co. 100,000 bu. grain elevator, concrete, to E. H. Ingram, Joplin, Mo. $75,000.

Shipping Terminal — Seattle, Wash. — Pacific Steamship Co., L. C. Smith Bldg., first unit of $2,000,000 terminal development, freight shed, 160 x 1,000 ft., steel frame and corrugated iron, general contract to Albertson, Cornell Bros. & Walsh, South 12th and Pacific Sts., Tacoma. Archts. est. $500,000. Noted Nov. 15.

Tunnel, etc.—Oregon—Southern Pacific R.R. Co., Southern Pacific Bldg., San Francisco, Calif., 3,700 ft. tunnel and 7 mi. railway in Klamath Co., (through Cascade Range), here, to Stewart & Welch, Empire Bldg., Seattle, Wash. Noted Oct. 18.

Pier Shed—San Francisco, Calif.—State Bd. Harbor Comrs., Ferry Bldg., pier shed, Islais Creek Terminal, to Grant & Hart, 571 42nd Ave., San Francisco, $45,623. Noted Jan. 10.

Materials and Equipment

PROPOSED WORK

Iron Pipe—Long Island City, N. Y.— M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., received no bids Jan. 14, 864 ft. 12 in. iron pipe. Noted Jan. 10.

Concrete Mixer—Pittsburgh, Pa.—J. J. Curten, 207 Corliss St., plans to purchase 7 ft. concrete mixer, Blystone or Besser preferred.

Pumps, Grader, etc.—Milwaukee, Wis.— Central Bd. Purchases soon takes bids for equipment for use Dept. Pub. Wks. incl. 1 pump, 1 turbine sewer flusher, 1 boiler feed pump, 1 road grader. 1 road repair outfit, two 1 ton and two 5 ton motor trucks, fourteen 5 ton tractor trucks, 8 trailers, two 5 ton caterpillar tractors, 1 street sweeper with broom, one 3 ton tandem roller, five 1 bag concrete mixers, 2 tar kettles, 1 gasoline shovel and 1 rock crusher. R. E. Stoelting, comr. Pub. Wks.

Structural Steel—Chicago, Ill.—Illinois Central R.R., 135 East 11th St., plans to purchase 240 tons structural steel for bridge work. $15,000. F. L. Thompson, ch. engr.

Concrete Mixer—Los Angeles, Calif.— City Harbor Dept., G. W. Wade, secy., Byrne Bldg., plans to purchase heavy duty portable concrete mixer.

Steel Forms—San Francisco, Calif.—M. J. Hvorslev, 1216 Clay St., plans to purchase 4,000 sq.ft. 14 in. removable steel forms with 20 in. base for concrete joists.

BIDS DESIRED

Tractor, etc.—Troy, N. Y.—Bd. Contr. & Supply, 21 City Hall, in market for one 5 ton caterpillar tractor with snow plow attached, and 1 snow loader.

Cable Guard Rail, etc.—Trenton, N. J.— Jan. 29, by Mercer Co., 7,000 ft. cable guard rail, post, etc., for Brunswick Pike. $7,000. H. F. Harris, Court House, engr.

Truck Chassis, Cabs, etc. — Georgia — Feb. 1, by State Hy. Dept., East Point, 39 one ton truck Chassis, 39 one yd. steel hand dump bodies, 39 truck cabs. W. R. Neel, state highway engr.

Drag Line, etc.—What Cheer, Ia.—What Cheer Products Co., in market 9 x 14 drag line, 1 steel water tower and tank.

Norway Pine—Minneapolis, Minn.—Jan. 22, by F. S. Gram, city purch. agt., 185,000 ft. No. 1 rough Norway pine. N. W. Elsberg, city engr.

Steam Shovel, etc.—Cherryvale, Kan.— Edgar Zinc Co. in market for large size steam shovel and tram loading cars.

Steam Shovel—Scammon, Kan.—Carbon Coal Co. in market for 200 or 250 hp. steam shovel. A. Robinson, purch. agt.

Steam Pile Hammer—Dallas, Tex.—J. Smith, Box 1094, taking bids one No. 1 Vulcan steam pile hammer or similar equipment.

Mixer—Tulsa, Okla—E. G. Fiske & Co., Nebraska Bldg., in market for sack or half sack Koehring mixer.

Cletracs—Gilroy, Calif.—Feb. 4, by H. Pfister, clk. Santa Clara Co., San Jose, furnishing and delivering one or more cletracs for Rd. Dist. 1. R. Chandler, co. surv.

BIDS RECEIVED

Broken Stone, etc. — Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 14, 21,000 cu. yd. broken stone, and 5,000 cu.yd. sand grit, from W. P. McDonald Constr. Co., 17 West 42nd St., New York, $61,530 and $12,150 respectively; 11,000 cu.yd. sand, and 14,000 tons steam ashes, from Peace Bros., Inc., 57 North Laurence St., Flushing, $19,250 and $24,560 respectively; 25,000 vitr. paving blocks, from G. B. Raymond & Co., 293 Borden Ave., $62. Noted Jan. 10.

Asphaltic Cement, etc.—New York, N. Y. —J. Miller, pres. Manhattan Boro, Municipal Bldg., Jan. 9, 600,000 gal. asphaltic cement from Warner Quinlan Co., 79 Wall St., $32,520; 2,500 cu.yd. sand grit from Colgan & Colgan, $5,275; 20,000 cu.yd. asphalt sand and 20,000 bags Portland cement, from W. F. Cunningham, $13,500 each; 500,000 wood paving blocks, from Southern Wood Preserving Co., 10 East 43rd St., $21,800; 120,000 gal. gasoline in tanks, from Standard Oil Co., 26 Bway., $15,136. Noted Jan. 3.

Road Surfacing Material, etc. — New York, N. Y. — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Jan. 14, 75,000 gal. road surfacing material and 50 tons pitch joint filler, from F. J. Lewis Mfg. Co., Eastern Blvd. and East 177th St., $12,270 and $1,199 respectively; 600,000 gal. asphalt road oil, from Texas Co., 17 Battery Pl., $31,980; 3,000 cu.yd. hard coal ashes, from McGirr Bros., Inc., 461 8th Ave., $2,175; 500 cu.yd. fine sand, from Gallagher-Shand, Inc., 420 East 105th St., $875; Broken stone and trap rock screening, also 500 cu.yd. paving gravel, from Ames Building Material Co., 3437 Kingsbridge Rd., $27,810 and $1,550 respectively; 2,000 bags Portland cement, from C. J. Mallett, Inc., 2554 St. Raymond Ave., $1,390; 1,200 tons asphaltic cement, from Standard Oil Co. of New York, 26 Bway., $22,356; 300,000 gal. tar road oil, from Barrett Co., 40 Rector St., $32,730; 7,500 cu.yd. binder stone, from Calvin Tompkins Co., 30 Church St., $14,850; 7,500 cu.yd. sand grit, from Rosoff Sand & Gravel Co., 152 West 42nd St., $17,850; 500 tons limestone dust, from New York Trap Rock Corp., 101 Park Ave., $2,800; 10,000 cu.yd. asphalt sand, from C. W. Crane, 17 Battery Pl., $13,200; steam rollers, from Buffalo Springfield Roller Co., Brisbane Bldg., Buffalo, $6,850. Noted Jan. 10.

Snow Removing Machinery — Madison, Wis. — Snow removing equipment, from Barber Greene Co., West Park Ave., Aurora, Ill., $5,400. Noted Nov. 29.

Portland Cement—Springfield, Ill.—Dept. Pub. Wks. opened bids Jan. 14 on cement. Bids show same prices as before. Bids presented on 3,400,700 bbl. of the 4,500,000 asked for. Noted Jan. 10.

Portland Cement—Minneapolis, Minn.— F. S. Gram, city purch. agt., Jan. 4, 125,000 bbl. portland cement for City Eng. Dept., from Hydraulic Press Brick Co., 1250 Builders Exch.; L. W. Northfield Co. 2532 Central Ave.; Landers-Morrison-Christensen Co., 800 Builders Exch.; P. B. Speakes Co., 2845 2nd Ave. S; Minneapolis Builders Supply Co., 721 Lumber Exch., all bid $2.52 per bbl. f.o.b. Minneapolis. Noted Jan. 3.

Cable—Los Angeles, Calif.—City, furnishing cable for fire alarm system, from Standard Underground Cable Co., Citizens Natl. Bank Bldg., Los Angeles, $384,769.

CONTRACTS AWARDED

Cement — Wisconsin — State Hy. Comn. Madison, furnishing 400,000 bbl. cement, to Universal Portland Cement Co., 210 La Salle St., Chicago; 160,000 bbl. to Marquette Portland Cement Co., Chicago; 150,000 bbl. to Lehigh Portland Cement Co., 111 Washington St., Chicago; 60,000 bbl., to Sandusky Portland Cement Co., Engineers Bldg., Cleveland, O.; 75,000 bbl., to Alpha Portland Cement Co., 140 South Dearborn St., Chicago; 30,000 bbl., to Petoskey Portland Cement Co., Petoskey, Mich.; 40,000 bbl., to Northwestern States Portland Cement Co., Mason City, Mich.; 50,000 bbl., to Western Lime & Cement Co., Representatives for Huron Portland Cement Co., 68 Wisconsin St., Milwaukee; 60,000 bbl., to Manitowoc Portland Cement Co., Manitowoc. Base price on which all awards were made was $1.65 per bbl. net, Buffington and $1.65 per bbl. net La Salle, Ill. Noted Jan. 10.

Reinforcing Steel—St. Paul, Minn.—H. W. Austin, city purch. agt., 418 tons reinforcing steel rods, to Clinton Bridge Wks., Clinton, Ia., $26,400. Noted Dec. 20.

Crushed Stone, etc.—Jefferson City, Mo. —State Hy. Dept., to McDowell & Co., Kansas City, 675,000 tons crushed stone for road construction in northwestern part of Missouri to be used during next 3 years, $1.25 per ton at quarry, screenings $0.55 per ton, quarries to be operated at Smithville, Clay Co, and Gallatin, Davies Co., to Joplin Crushed Flint Co, with quarry near Kansas City, 50,000 tons annually $1.10 f.o.b. quarry.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate: 40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: Jan. 31.

State Hospital Work

Ray Brook, N. Y.

Sealed proposals for Construction, Heating, Sanitary, Electric and Refrigerating Work—Storehouse and Cold Storage Building at the State Hospital for the Treatment of Incipient Pulmonary Tuberculosis, Ray Brook, N. Y., will be received by Dr. Frank Erdwurm, President, Board of Trustees, State Hospital for the Treatment of Incipient Pulmonary Tuberculosis, Ray Brook, N. Y., until 10 o'clock a.m., Thursday, January 31, 1924, when they will be publicly opened and read. Proposal shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money, equal to five per cent (5%) of the amount of the proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification Nos. 4213, 4214, 4215, 4216 and 4217. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the State Hospital for the Treatment of Incipient Pulmonary Tuberculosis, Ray Brook, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Bldg., B'way & 23rd Street, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the States Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: January 8th, 1924.

Bids: Jan. 24.

NOTICE TO CONTRACTORS.

Building Removal

Proposals for completely and entirely removing buildings known as Nos. 268 and 269 64th St., Borough of Brooklyn, City of New York, and all the materials connected therewith, down to the level of the street, will be received by the Commission created by and under Chapter 471, Laws 1923 of the State of New York, at the office of the New York National Guard, Room 829 Municipal Building, Borough of Manhattan, City of New York, at 2 o'clock P.M., on the 24th day of January, 1924, and then and there to be opened and read.

Proposals must be made on proposal forms and enclosed in envelopes, both of which are furnished by the State, envelopes to be sealed and endorsed as directed in the proposal forms.

Proposal forms and envelopes may be obtained and copies of requirements, specifications or proposed contract consulted or obtained at the above mentioned office of the Commission.

Dated: New York, N. Y., Jan. 8th, 1924.

ALFRED E. SMITH, Governor of the State of New York.

JAMES W. FLEMING, Comptroller of the State of New York.

EDWARD J. WESCOTT, The Adjutant-General of the State of New York, constituting the Commission created by and under Chapter 471, Laws of 1923 of the State of New York.

OFFICIAL PROPOSALS

Bids: an. 28.

Bulkhead

Jersey City, N. J.

Sealed proposals will be received by the Hudson County Park Commission at its office, 1 Exchange Place, Jersey City, N. J., on Monday, January 28, 1924, at eleven o'clock a.m. for the construction of a bulkhead at Bayonne Park, Bayonne, N. J., and work connected therewith in accordance with Plans and Specifications of Charles N. Lowrie, Landscape Architect, on file at the office of the Hudson County Park Commission and which will be loaned to the prospective bidders on a deposit of a certified check to their order in the sum of Ten ($10.00) dollars.

Blank forms for bids showing estimates of quantities may be obtained at the office of the Hudson County Park Commission.

Each bidder must accompany his bid with a certified check drawn to the order of the Hudson County Park Commission to the amount of 5 per cent of his bid.

The successful bidder will be required to furnish a surety company's bond to be approved by the Hudson County Park Commission in the full amount of his bid with satisfactory security conditioned for the faithful performance of his contract.

There shall be two contracts, the original and a copy which shall first be signed and executed by the successful bidder and then presented to the Hudson County Park Commission for signature.

Bids must be enclosed in sealed envelopes indorsed "Proposals for Bulkhead and work connected therewith, Bayonne Park, Bayonne, N. J.," directed to the Hudson County Park Commission and delivered to the Secretary of the Hudson County Park Commission at or before the hour above specified. The commission reserves the right to reject any or all bids.

Dated January 7, 1924.

Hudson County Park Commission,
BY JOSEPH FILORAMO, JR.,
Secretary.

Bids: Feb. 5.

Highway Work

STATE DEPARTMENT OF PUBLIC WORKS—BUREAU OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at the office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m., on Tuesday, February 5, 1924, for the construction and reconstruction of highways in the following counties:

ALLEGANY	One contract: 1.18 miles
DUTCHESS	One contract: 1.19 miles
MADISON	One highway: 4.85 miles
ONTARIO	One highway: 8.79 miles
ORANGE	One highway: 3.82 miles
ORLEANS	One highway: 5.30 miles
OSWEGO	One contract: 4.75 miles
WYOMING	One highway: 4.34 miles

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Bureau in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved or reconstructed. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

LOWELL GROSSMAN,
Commissioner.

OFFICIAL PROPOSALS

Bids: Jan. 25.

Street Paving

Waterloo, N. Y.

For paving certain streets in the Village of Waterloo, Seneca County, N. Y. Bituminous Macadam Pavement, Penetration Method.

Sealed proposals for the above mentioned work, endorsed "Proposals for Paving" will be received at the office of the Board of Trustees, Waterloo, N. Y., until 12 o'clock M. of January 25, 1924.

Estimated quantity of pavement is 18,500 square yards, using two applications of bituminous material, totaling two gallons per square yard. Bid price to include excavation and all material and labor.

Each bid must be made out on the forms of proposals furnished by the Board of Trustees, and must be enclosed in a sealed envelope addressed to the Board of Trustees, Waterloo, N. Y.

Contractors will be paid monthly, approximate estimates, 90% of the amount due for work at that time done.

A certified check payable to the order of the Village Treasurer of the Village of Waterloo, N. Y., will be required in the amount of $1,500.00 (Fifteen hundred dollars) to accompany each bid.

The successful bidder will be required to give a bond in the sum of at least 50% of the contract price conditioned for the faithful performance of all parts of the contract with sureties to be approved by the Board of Trustees.

The Board of Trustees reserves the right to reject all bids not deemed for the best interest of the Village and adjacent and contiguous property owners.

Plans may be seen at the office of the Board of Trustees, and specifications, forms of proposal, contract, etc., obtained from the Village Clerk.

The Contractor is required to furnish the Engineer, previous to the time fixed for receiving bids, samples of the bituminous material proposed to be used.

By order of the Board of Trustees of the Village of Waterloo, N. Y.

ADELBERT H. MOORE,
Village Clerk.

Waterloo, N. Y., Jan. 3rd, 1924.

Bids: Jan 30.

24-Inch Gravity Pipe Line

Greenville, S. C.

Sealed proposals will be received by The Water Commission of the City of Greenville, South Carolina, until 3 o'clock p.m., Wednesday, January 30th, 1924, for furnishing and laying a 24-inch cast iron or reinforced concrete gravity pipe line approximately 40,000 feet long.

Plans and profile will be on file and may be seen at the office of The Ludlow Engineers, Winston-Salem, N. C., or at the office of the Water Works Superintendent, Greenville, S. C., after January 20th. Specifications, bid blank, contract form, etc., may be obtained from the Engineers.

Each bid for excavating trench and laying the pipe line shall be accompanied by a certified check or bid bond in the sum of $5,000, payable to the Treasurer of The Water Commission.

Proposals will be opened publicly with the usual rights reserved.

H. W PERRY,
Supt. Water Works.

J. L. LUDLOW,
Consulting Engineer.